

Exhibit C

DOUGLAS POHL

9/29/2005 EMMA GARDEA v. ABLE SUPPLY COMPANY, ET AL.

Page 1

1 IN THE COUNTY COURT AT LAW NUMBER THREE
2 EL PASO COUNTY, TEXAS
3 CAUSE NUMBER: 2004-526

4 EMMA H. GARDEA, Individually
5 and as Personal Representative
6 of the Heirs and Estate of
7 Jose C. Gardea, Deceased,
8 Plaintiff,

9 vs.

10 ABLE SUPPLY COMPANY, et al.,

11 Defendants.

12 _____/

13 DEPOSITION OF THE WITNESS
14 DOUGLAS A. POHL, M.D., Ph.D.
15 TAKEN BY THE DEFENDANTS,
16 PHELPS DODGE REFINING CORPORATION
17 AND PHELPS DODGE INDUSTRIES

18 5 North A1A
19 Jupiter, Florida
20 Thursday, September 29, 2005
21 12:26 p.m. - 4:06 p.m.
22 Before Janette P. Hert, RPR, RMR, CRR
23 and Notary Public, State of Florida

24 APPEARANCES:

25 On behalf of the Plaintiff:

26 RICHARDSON, PATRICK, WESTBROOK &
27 BRICKMAN, LLC
28 By KARL E. NOVAK, ESQUIRE
29 1037 Chuck Dawley Boulevard
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33 APPEARANCES Continued on Page 2.

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3 Refining Corporation, and Phelps Dodge	3 DOUGLAS A. FOHL, M.D., Ph.D.
4 Industries, Inc.,	4 Page
5 KASOWITZ, BENSON, TORRES & FRIEDMAN, LLP	5 DIRECT EXAMINATION BY MR. ZOELLER 6
6 By PAUL J. ZOELLER, ESQUIRE	6 CROSS-EXAMINATION BY MR. PHIBREIT 38
7 700 Lookham Street	7 CROSS-EXAMINATION BY MR. RICE 134
8 Houston, Texas 77001	8 CROSS-EXAMINATION BY MR. SHEPHERD 143
9 (713) 238-6331	9 CROSS-EXAMINATION BY MR. LABOON 146
10 paul.zoeller@kasowitz.com	10 RE-CROSS-EXAMINATION BY MR. RICE 147
11 On behalf of the Defendant, Crane Company:	11
12 KIRKPATRICK & LOCKHART, NICHOLSON,	12
13 GRAHAM, LLP	13
14 By JOHN W. PHIBREIT, ESQUIRE	14
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20 On behalf of the Defendant, Kelly Moore Paint:	16
21 BROWN MCCABRELL, LLP	16
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27 On behalf of the Defendants, Texaco, Inc.,	16
28 Conoco Phillips Company, and Chevron:	16
29 HAYS, McDONN, RECH & PICKERING, P.C.	16
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36 APPEARANCES Continued on Page 3.	16
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1 APPEARANCES Continued:	1 (Defendants' Deposition Exhibit Nos. 1,
2 On behalf of the Defendants, Ontrack and	2 2 and 3 were marked for identification by the
3 Ontrack Texas:	3 reporter.)
4 SERIAL, McCAMBRIDGE, SINGER & MARDNEY,	4 MR. NOVAK: I have not introduced myself
5 LLP:	5 to everyone here this morning. I'm Karl Novak
6 By JOHN A. LABOON, ESQUIRE	6 with Richardson, Patrick out of Charleston.
7 100 Congress, Suite 700	7 Obviously we'll be conducting this deposition
8 Austin, Texas 78701	8 pursuant to the Texas rules, which there's no need
9 (512) 651-0250	9 to go out and specify what they are. We all know
10 jlaboon@msm.com	10 what they are.
11 (via telephone)	11 We'll attach as Exhibit Number 1 a copy
12 On behalf of the Defendant, Zeno Industries:	12 of the Notice to the deposition. I think there
13 FORMAN, PERKY, WATKINS, KRUTZ & TARDY,	13 are multiple notices, so we'll attach any and all
14 LLP	14 of the Notices to the deposition.
15 By KYLE STEELE, ESQUIRE	15 MR. ZOELLER: That's fine. I gave the
16 2001 Bryan Street	16 court reporter the latest one, but we can attach
17 Bryan Tower, Suite 1300	17 the remainder ones.
18 Dallas, Texas 75201	18 MR. NOVAK: That's fine.
19 (214) 985-3924	19 I don't have anything else to add.
20 ksteele@fwpk.com	20 Please feel free to ask your questions.
21 (via telephone)	21 THE REPORTER: Okay. Doctor, if you'll
22 On behalf of the Defendant, Santa Fe Bracer:	22 please raise your right hand, I'll swear you in.
23 EDWARD, BURNS & BRAZIER, LLP	23 DR. FOHL: Okay.
24 By KATHERYN BERNAL, ESQUIRE	24 THEREUPON,
25 1000 Louisiana, Suite 1300	
26 Houston, Texas 77002	
27 (832) 629-8415	
28 kbernal@edwardsburns.com	
29 (via telephone)	

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<p>1 DOUGLAS A. POHL, M.D., Ph.D., 2 called as a witness by the Defendants, Phelps 3 Dodge Refining Corporation and Phelps Dodge 4 Industries and being by the undersigned Notary 5 Public first duly sworn, testified as follows: 6 THE WITNESS: I do. 7 THE REPORTER: Thank you. 8 9 DIRECT EXAMINATION 10 BY MR. ZOELLER: 11 Q. Dr. Pohl, good afternoon. 12 A. Good afternoon. 13 Q. My name is Paul Zoeller with the Law 14 Firm of Kasowitz, Benson, Torres & Friedman 15 representing Phelps Dodge Industries. 16 I know you've given a lot of depositions 17 before. I've read a lot of them. So we'll try to 18 keep the preliminary short and sweet and move this 19 along. 20 The usual ground rules apply. If you 21 don't understand my question, please let me know; 22 I'll ask it again. And we'll try to not jump on 23 each other so the court reporter can stay sane. 24 A. Understand. 25 Q. Okay. First, the court reporter has</p>	<p>1 sequentially? 2 THE REPORTER: Sure. 3 MR. NOVAK: Do you want to do them as a 4 group? 5 MR. ZOELLER: Yes, I think we'll take 6 his file as one group. 7 MR. NOVAK: That's easier, isn't it? 8 We'll just keep them in the file. 9 THE WITNESS: Okay. 10 (Defendants' Composite Deposition 11 Exhibit No. 4 was marked for identification by the 12 reporter.) 13 MR. ZOELLER: Can we take a look at 14 what's in the file, please? 15 MR. NOVAK: (Hands file.) 16 This is off the record. 17 THE REPORTER: Okay. 18 (Thereupon, there was a discussion held 19 off the record.) 20 MR. ZOELLER: Just for the sake of the 21 record, the file contains the following: 22 Dr. Pohl's consultant report, a copy of the Notice 23 of Deposition, a letter dated September 20th, 24 2005, from Leslie Henry at Hays, McConn, and then 25 enclosed is another Notice of Deposition of</p>
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<p>1 marked as Defendant's 1 here the Notices of 2 deposition on this case. 3 I'd ask her to hand you a copy of that. 4 Have you seen that before? 5 A. Yes. 6 Q. Okay. You'll notice that there's a 7 subpoena duces tecum attached to the back of it 8 requesting production of numerous documents; is 9 that correct? 10 A. Yes. 11 Q. Have you seen that before? 12 A. Within the last 24 hours, yes. 13 Q. Okay. Do you have any documents to 14 produce at this period of time pursuant to that 15 subpoena? 16 A. I do. 17 Q. Will you please produce or identify 18 those documents that you have at this period of 19 time? 20 A. What I brought is my file in the case of 21 Mr. Gardea. The file contains a variety of 22 different things. I also brought the expert 23 witness offer for deposition and two copies of my 24 curriculum vitae. 25 MR. ZOELLER: Can we have those marked</p>	<p>1 Dr. Pohl, Hissey Kientz's letter dated September 2 19th, 2005, setting the location and time of the 3 deposition, one copy of the curriculum vitae -- 4 MR. NOVAK: As a courtesy, there's 5 someone on the phone that is making some noise. 6 Would it be possible for them to put their phone 7 on mute? 8 Thank you. 9 MR. ZOELLER: -- a copy of a Fed Ex 10 transmittal to Guy Smith at the Kientz Law Firm 11 presumably from Dr. Pohl, an original of 12 Dr. Pohl's report, a facsimile transmittal sheet 13 from Dr. Pohl to Guy Smith, and a -- strike that, 14 a letter dated March 22nd, 2005, enclosing various 15 materials sent from Hissey Kientz to Dr. Pohl, and 16 a copy of the pneumoconiosis evaluation offered by 17 Dr. Segarra, and that's the full contents of the 18 file. 19 And just give me one second. I want to 20 take a look at this transmittal. 21 I'll pass this to you guys when I'm 22 done. 23 It didn't take long to read it. 24 Q. (BY MR. ZOELLER) Let's launch ahead, 25 Dr. Pohl.</p>

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512-320-0185

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<p>1 Your curriculum vitae that you handed 2 us, that's current and up to date? 3 A. Yes. 4 Q. Your practice as a pulmonologist, is it 5 split between working as an expert in clinical 6 work or solely as an expert? 7 A. Well, first of all, I'm a pathologist, 8 not pulmonologist. 9 Q. Oh, I'm sorry. I misspoke. 10 A. And I practice pathology at the 11 Cleveland Clinic in Weston, Florida, and spend a 12 lesser amount of time in evaluating cases that 13 involve asbestos injury. 14 Q. Roughly what percentage of your time is 15 spent evaluating cases involving asbestos injury? 16 A. About 15 percent. 17 Q. Is that for plaintiffs and defendants, 18 all for plaintiffs? 19 A. Mostly for plaintiffs. I have done a 20 couple cases for defendants. 21 Q. In the area of asbestos, have you ever 22 done any work for defendants? 23 A. That's what I was alluding to, yes. 24 Q. Okay. For who did you do such work? 25 A. It was an attorney in Maine who had a</p>	<p>1 You assume that, in the deposition, he's 2 only testifying at the request of defendants today 3 and at other times. 4 When you make the distinction, are you 5 making the distinction as it relates to plaintiff 6 cases or at the request of whoever took the dep? 7 Q. In any of the depositions you testified, 8 were you retained by plaintiff's counsel - I mean 9 by defendant's counsel, I'm sorry? 10 A. I don't believe so. 11 Q. Okay. Same question as to trials: On 12 any of the trials, were you retained by 13 defendant's counsel? 14 A. No. 15 Q. And how many trials have you testified 16 in? 17 A. I'd estimate probably 20 to 30 over the 18 years. 19 Q. Okay. I take it you're not licensed in 20 the State of Texas, Doctor? 21 A. That's correct. 22 Q. Have you ever had your license suspended 23 or any privileges suspended in any way? 24 A. No. 25 MR. NOVAK: Excuse me, John - or Paul.</p>
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<p>1 couple cases of mesothelioma with a short latency 2 period between exposure and development of the 3 disease. 4 Q. Okay. And what was the nature of your 5 testimony in that matter, if you recall? 6 A. Essentially that an exposure within 7 seven years of the development of the disease 8 would not have contributed to the patient's 9 mesothelioma. 10 Q. Dr. Pohl, what states are you licensed 11 to practice medicine in? 12 A. Maine, Florida, and Massachusetts. 13 Q. And what specialties do you hold at this 14 time? 15 A. I'm a specialist in clinical pathology, 16 anatomic pathology, and cytopathology. 17 Q. Going back to your work as an expert, 18 you've testified, I know, in depositions. 19 Approximately how many? 20 A. Certainly at this point in time, more 21 than 50 times. 22 Q. Okay. Any of that testimony again for 23 defendants? 24 MR. NOVAK: Excuse me, I want to make a 25 clarification as relates to the question.</p>	<p>1 There is someone on the phone that is 2 doing something that's very distracting. Whoever 3 it is, I think you're writing, and you're writing 4 next to the phone. 5 As a courtesy, we've put the speaker 6 right next to the doctor so you can hear what he 7 says, but we'll move it if we continue to have to 8 listen to somebody that's on the other end of the 9 phone. 10 Q. (BY MR. ZOELLER) Okay. Roughly, 11 Doctor, on average, how much time do you spend per 12 month in hours working as an expert witness? 13 A. It would just be a guess. I'd have to 14 say maybe 16 hours a month, something like that. 15 Q. Okay. You've stated that most of your 16 specialties are in the field of pathology and 17 related fields. 18 I take it you're not an oncologist, 19 Doctor? 20 A. That's correct. 21 Q. And you're not a pulmonologist, correct? 22 A. Correct. 23 Q. Okay. You're not a certified B-reader? 24 A. That's correct. 25 Q. Are you an industrial hygienist, Doctor?</p>

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<p style="text-align: right;">Page 14</p> <p>1 A. No. 2 Q. Epidemiologist? 3 A. No. 4 Q. Toxicologist? 5 A. Toxicology is a part of clinical 6 pathology, so, yes, I'm familiar with toxicology. 7 Q. Well, my question is: Would you 8 consider yourself a toxicologist? 9 A. I'm not a Ph.D. level toxicologist, 10 no. 11 Q. When were you first retained to 12 represent — I'm sorry, to work for the plaintiffs 13 in this case? 14 A. According to the file, I believe it was 15 early summer of this year to look at the Gardea 16 case. 17 Q. Okay. And what specifically were you 18 asked to do regarding the Gardea case? 19 A. My recollection is I was forwarded a 20 collection of medical records related to 21 Mr. Gardea as well as cytology slides from a 22 pleural fluid that was obtained from Mr. Gardea. 23 I was also provided with a fairly comprehensive 24 occupational history. 25 And the initial request was that I</p>	<p style="text-align: right;">Page 16</p> <p>1 A. Actually I have a copy of it here. 2 MR. RICE: Do you need the letter 3 from — 4 THE WITNESS: Not at present. 5 I was forwarded four H&B stained slides 6 and two smears that were labeled SL:CY02:124. 7 Q. (BY MR. ZOELLER) Okay. Were you given 8 any other materials to evaluate Mr. Gardea? 9 A. I was also provided with a paraffin 10 block with the same — actually with a different 11 designation. It was SL:CY97:27. 12 Q. Okay. Were you given any other medical 13 records at all? 14 A. Yes, I was given a collection of medical 15 records that were forwarded to me. 16 Q. Can you specify what records you were 17 given, please, Doctor? 18 A. They're pretty much summarized in my 19 clinical summary. They were the reports of 20 Dr. Shahar, who is a pulmonologist, and the 21 medical records from East Houston Medical Center 22 concerning Mr. Gardea's care. 23 Q. When you refer to the medical records 24 from Dr. Shahar, that's the medical records of 25 2-20-97?</p>
<p style="text-align: right;">Page 15</p> <p>1 evaluate Mr. Gardea's lung cancer and determine 2 whether his lung cancer was in any way related to 3 his prior asbestos exposure. 4 Q. Had Mr. Gardea, at the time you were 5 retained, been diagnosed with lung cancer? 6 A. It's my recollection that he had not. 7 Q. Okay. So how did the notion of him 8 having lung cancer arise? You were asked to 9 evaluate the causes of it. 10 A. Well, that was actually the question 11 that I raised with one of the paralegals. I think 12 that there were clinical findings of bilateral 13 lung masses, and I think Mr. Gardea expired before 14 any further evaluation could be undertaken. 15 So I was being asked to review the 16 available cytology and determine whether there was 17 a lung cancer in Mr. Gardea and whether his 18 asbestos exposure played a role. 19 Q. Now I want to be very clear and concise 20 about this. Could you list to me, A, what exact 21 pathology, cytology were you given? 22 If you need to refer to your report, 23 that's fine. 24 A. That would be helpful. 25 Q. Well, let me —</p>	<p style="text-align: right;">Page 17</p> <p>1 A. Yes. 2 Q. Did you see anything else from 3 Dr. Shahar? 4 A. No, I didn't have any office notes from 5 Dr. Shahar. 6 Q. Okay. As to the East Houston Medical 7 Center, again, I see a notation related to 8 documents — to records dated June 25th, 2002. 9 Is that the only medical records you 10 received from East Houston? 11 A. Yes, they were the medical records 12 concerning that hospital admission and the care 13 during that admission. 14 Q. Okay. Did you see any other medical 15 records at all relating to Mr. Gardea? 16 A. I did not. 17 Q. Were you given any other information 18 regarding Mr. Gardea's medical history? 19 A. No, just what was contained in those 20 records. 21 Q. I note also — were you given the report 22 of Dr. Segarra? 23 A. Yes, I was. 24 Q. And did that come with the original 25 materials?</p>

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<p style="text-align: right;">Page 18</p> <p>1 A. It did.</p> <p>2 Q. Was there anything else other than we</p> <p>3 mentioned that you were provided regarding</p> <p>4 Mr. Gardea in terms of rendering your opinion?</p> <p>5 A. I'd like to look at the cover sheet, if</p> <p>6 I could.</p> <p>7 MR. RICE: (Hands documents.)</p> <p>8 THE WITNESS: No, that's a copy of my</p> <p>9 reports.</p> <p>10 MR. RICE: Oh, I'm sorry.</p> <p>11 MR. NOVAK: Would it be possible if he</p> <p>12 just gets his file back?</p> <p>13 MR. ZOELLER: Yes, I gave him the file</p> <p>14 back except for the cover sheet, which Mr. Rice</p> <p>15 was looking at.</p> <p>16 MR. NOVAK: Okay. Thank you.</p> <p>17 THE WITNESS: I don't believe so. The</p> <p>18 only other thing I remember is that I did receive</p> <p>19 an e-mail from a paralegal at the firm that asked</p> <p>20 me to expedite the case, but that's the only other</p> <p>21 communication I had.</p> <p>22 Q. (BY MR. ZOELLER) There's nothing else</p> <p>23 at all that was relevant to your rendering an</p> <p>24 opinion in this case?</p> <p>25 A. That's correct.</p>	<p style="text-align: right;">Page 20</p> <p>1 A. It's similar, but it's much more</p> <p>2 detailed. It gives some insight into the types of</p> <p>3 activities that he engaged in and how he was</p> <p>4 specifically exposed to asbestos.</p> <p>5 Q. Let me ask the question a different way,</p> <p>6 Doctor.</p> <p>7 Were your understandings about his work</p> <p>8 history any different from those referenced in</p> <p>9 Dr. Segura's report?</p> <p>10 A. In terms of the sites of exposure, I</p> <p>11 think it's consistent with what was provided with</p> <p>12 the cover letter from Hissey Kientz.</p> <p>13 But, as I said, it seems to me that</p> <p>14 Dr. Segura either spoke to Mr. Gardea directly or</p> <p>15 had other information because he talked</p> <p>16 specifically about the types of things that he</p> <p>17 did, which is not contained in the cover letter.</p> <p>18 Q. In your view, Doctor, was the work</p> <p>19 history of Mr. Gardea important to your diagnosis,</p> <p>20 sir?</p> <p>21 A. To the diagnosis, no.</p> <p>22 Q. Okay. Was it considered at all in</p> <p>23 reaching your diagnosis of malignant mesothelioma?</p> <p>24 A. No.</p> <p>25 Q. Do you agree with the proposition then,</p>
<p style="text-align: right;">Page 19</p> <p>1 Q. I take it then based on that you've</p> <p>2 never seen any depositions in this case?</p> <p>3 A. Not at present, that's correct.</p> <p>4 Q. Okay. I notice in your report you</p> <p>5 relate a work history for Mr. Gardea.</p> <p>6 Am I right to assume that that work</p> <p>7 history was what was contained in the cover letter</p> <p>8 sent to you by Hissey Kientz?</p> <p>9 A. That's correct.</p> <p>10 Q. Did you see any other information at all</p> <p>11 regarding Mr. Gardea's work history?</p> <p>12 A. No.</p> <p>13 Q. Okay. So any recitation that's based</p> <p>14 in your report is based solely on counsel's</p> <p>15 representations concerning work history, correct?</p> <p>16 A. And also the summary that was in</p> <p>17 Dr. Colella's report as well.</p> <p>18 Q. Which report would that be, sir?</p> <p>19 A. It was the one that was -- I'm sorry,</p> <p>20 Dr. Segura.</p> <p>21 Q. Okay. Do you know the source of</p> <p>22 Dr. Segura's information regarding work history?</p> <p>23 A. I don't.</p> <p>24 Q. Does it largely agree with the work</p> <p>25 history you were provided?</p>	<p style="text-align: right;">Page 21</p> <p>1 Doctor, that some mesotheliomas occur without</p> <p>2 exposure to asbestos?</p> <p>3 A. Yes. By definition, spontaneous or</p> <p>4 idiopathic mesotheliomas are those that occur in</p> <p>5 patients with no documented history of asbestos</p> <p>6 exposure in the past.</p> <p>7 Q. Okay. And do you believe that that</p> <p>8 actually means that they were not exposed to</p> <p>9 asbestos, Doctor?</p> <p>10 A. What it means is that, despite best</p> <p>11 efforts, there are cases that are found where no</p> <p>12 asbestos exposure can be documented.</p> <p>13 Q. Fair enough.</p> <p>14 Okay. What basically -- well, let me</p> <p>15 backtrack.</p> <p>16 What exactly was your opinion in this</p> <p>17 case, Doctor, regarding Mr. Gardea's condition?</p> <p>18 A. Well, to be honest with you, when I</p> <p>19 initially reviewed the medical records, I called</p> <p>20 the law firm of Hissey Kientz and raised my</p> <p>21 concern that there was absolutely no mention in</p> <p>22 the records of any lung cancer, and, therefore, I</p> <p>23 voiced my concern that perhaps this man had no</p> <p>24 malignancy at all.</p> <p>25 Subsequent to that discussion, I went</p>

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<p style="text-align: right;">Page 22</p> <p>1 ahead and reviewed the cytology and found that, in 2 fact, he did have a malignancy. 3 Q. Was this case sent to you as a lung 4 cancer case? Were you told it was a cancer claim? 5 A. Yes. I think the cover letter speaks 6 for itself. Mr. Gardea was diagnosed with lung 7 cancer in July of 2002. 8 Q. Okay. Now, again though, I want to go 9 back. One, the prior question, I ask it be struck 10 as nonresponsive, and I'll ask you the question 11 again, which is: What was your diagnosis in this 12 case? 13 A. In this case, the diagnosis is malignant 14 pleural mesothelioma. 15 Q. And what did you base that diagnosis on? 16 A. On the evaluation of the pleural fluid 17 cytology slides that were sent to me. 18 Q. Was there any other factor other than 19 the fluid cytology that was important to your 20 diagnosis, sir? 21 A. No. 22 Q. Okay. And, just so we're clear, so the 23 sole basis is the cytology, correct? 24 A. That's correct. 25 Q. Now, in your report, Doctor, you opine</p>	<p style="text-align: right;">Page 24</p> <p>1 Kientz and Dr. Segarra form the basis of my 2 understanding that Mr. Gardea was exposed to 3 asbestos. 4 Q. Okay. Is it your position that 5 carpentry is a profession with a high incidence of 6 exposure to asbestos? 7 A. Absolutely. In fact, Dr. Selikoff, way 8 back in the '60s, remarked and named specifically 9 carpenters as being the type of bystander 10 occupation that had inadvertent bystander exposure 11 to asbestos. 12 Q. That would be limited to certain 13 industrial settings, wouldn't it, Doctor? 14 A. It depends on the type of carpentry work 15 and the industrial or residential setting, yes. 16 Q. And that's my point; you'd need to know 17 a lot about what was going on around the carpentry 18 to make that conclusion that carpentry was a 19 profession with a high likelihood of asbestos 20 exposure, correct? 21 MR. NOVAK: Object to the form of the 22 question. Argumentative. 23 THE WITNESS: I think it's clear from 24 the medical literature and multiple depositions 25 that I've read over the years that carpenters were</p>
<p style="text-align: right;">Page 23</p> <p>1 that the cause of this mesothelioma was 2 occupational, correct? 3 A. Yes. 4 Q. And, again, that was based on the work 5 history you received, correct? 6 A. That's correct. 7 Q. And what particularly in that work 8 history led you to believe that it was an 9 occupational exposure history here? What factors 10 were important to you? 11 A. The description of the types of work 12 that was done: carpenter, sandblaster, painter, 13 and insulators. 14 These are occupations which, at the 15 point time in time that Mr. Gardea was working in 16 those professions, would have come into contact 17 with asbestos materials. 18 In addition, as I have already 19 mentioned, Dr. Segarra and his information give 20 more pointed descriptions of the types of 21 materials that Mr. Gardea worked with, for 22 example, drywall and sheetrock material, which 23 were known to contain asbestos, as well as 24 insulating materials. 25 So the information provided by Hissey</p>	<p style="text-align: right;">Page 25</p> <p>1 often exposed to asbestos, maybe not constantly, 2 but certainly in certain job sites, they did 3 sustain asbestos exposure. 4 Q. (BY MR. ZOELLER) And my question was 5 simply: But that would be dependent upon what 6 was going on around the particular carpenter, 7 correct? 8 A. Not necessarily because carpenters 9 also do plaster work, drywall work, and so some 10 carpenters working directly with asbestos 11 containing drywall materials would have been 12 directly exposed to asbestos. 13 Q. Okay. So you're very comfortable with 14 the generalization that carpentry itself is a high 15 exposure potential occupation? 16 A. Yes, I am. 17 Q. Okay. Now, again, going back to your 18 statement linking the diagnosis of malignant 19 mesothelioma to occupational exposure, would your 20 opinion change if his work history was 21 substantially different? 22 A. Of course it would. If someone stated 23 that he had no asbestos exposure, it would change 24 my opinion. 25 Q. Well, for instance, if an individual was</p>

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<p>1 not performing insulation work and you believed</p> <p>2 they were, would that be something that may change</p> <p>3 your opinion on causation?</p> <p>4 A. It's possible, but I'd have to have more</p> <p>5 detail if certainly there were other exposures</p> <p>6 that occurred in addition to the insulation.</p> <p>7 Q. But if the facts as you understand them</p> <p>8 are materially different, where this man was doing</p> <p>9 different types of tasks than you had been told by</p> <p>10 Hissey Kientz, that would impact your diagnosis,</p> <p>11 correct?</p> <p>12 A. Not the diagnosis.</p> <p>13 Q. I'm sorry, your opinion on causation?</p> <p>14 A. I'd have to have more information to</p> <p>15 answer that question.</p> <p>16 Q. And assuming what is in those reports is</p> <p>17 incorrect, is not a correct recitation of this</p> <p>18 man's job history, would that negate your opinion</p> <p>19 as to causation?</p> <p>20 MR. NOVAK: Object to the form of the</p> <p>21 question. Calling for speculation.</p> <p>22 Q. (BY MR. ZOELLER) It's a hypothetical.</p> <p>23 Hypothetically, if you had a completely different</p> <p>24 work history or a materially different work</p> <p>25 history, would that impact your opinion?</p>	<p>1 and the right procedure.</p> <p>2 And then I systematically evaluate the</p> <p>3 slides microscopically for the underlying disease</p> <p>4 process, and that's exactly what I did in this</p> <p>5 case.</p> <p>6 Q. When you're looking, what equipment are</p> <p>7 you using to review those slides?</p> <p>8 A. I have an Olympus microscope which is</p> <p>9 fitted with a digital electronic camera that's</p> <p>10 capable of taking photographs.</p> <p>11 The range of magnifications in the</p> <p>12 microscope are forty to one thousand-fold</p> <p>13 magnification. The microscope can do both light</p> <p>14 microscopy and phase contrast microscopy.</p> <p>15 Q. By the way -- I want to go back. You</p> <p>16 looked at those slides.</p> <p>17 -- would other pathology have been</p> <p>18 helpful to you in reaching a diagnosis here?</p> <p>19 A. Certainly it would have been nice if a</p> <p>20 thoracotomy or a pleural biopsy or some other</p> <p>21 procedure had been done, but that had not been</p> <p>22 done in Mr. Gardea, so I worked with what I had.</p> <p>23 Q. Are the items you just mentioned more</p> <p>24 reliable diagnostically for mesothelioma?</p> <p>25 A. I'm not sure I understand the term "more</p>
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<p>1 A. If the work history was such that there</p> <p>2 was absolutely no asbestos exposure at all during</p> <p>3 this man's occupational career, yes.</p> <p>4 Q. Now you mentioned a number of samples</p> <p>5 that you received, some fluid cytology and a</p> <p>6 paraffin block, correct?</p> <p>7 A. Yes.</p> <p>8 Q. Did you review all of those samples?</p> <p>9 A. Yes, I did.</p> <p>10 Q. Were all of those samples relevant to</p> <p>11 your determination of this being malignant</p> <p>12 mesothelioma?</p> <p>13 A. Only the six slides from the pleural</p> <p>14 fluid. Those are the only relevant samples.</p> <p>15 Q. We'll get back to that a little bit</p> <p>16 later.</p> <p>17 When you reviewed the slides to make</p> <p>18 your diagnosis, what methodology did you use in</p> <p>19 that review?</p> <p>20 A. It's no different than what I do in my</p> <p>21 day-to-day practice of pathology.</p> <p>22 First, I look at the individual slides</p> <p>23 to see what they are. I look at their accession</p> <p>24 number and compare it to the original report to</p> <p>25 make sure I have the slides from the right patient</p>	<p>1 reliable."</p> <p>2 Q. In other words, is it easier to get a</p> <p>3 definitive diagnosis, for instance, using biopsy</p> <p>4 or using a tissue sample than cytology?</p> <p>5 A. Sometimes, but the whole purpose of</p> <p>6 cytology is to avoid more invasive procedures, and</p> <p>7 cytology is widely recognized as a highly accurate</p> <p>8 diagnostic discipline within pathology that, in</p> <p>9 many cases, eliminates the need for biopsy.</p> <p>10 Q. By the way, when you were looking at the</p> <p>11 slides, did you look to see or is it possible to</p> <p>12 look to see if there was fiber present, asbestos</p> <p>13 fiber?</p> <p>14 A. Certainly if it had been present, I</p> <p>15 would have noted it. I don't believe it was</p> <p>16 present in this case.</p> <p>17 Q. So you did not see any asbestos fiber in</p> <p>18 the samples you reviewed, correct?</p> <p>19 A. That's correct.</p> <p>20 Q. By the way, were all the slides you</p> <p>21 reviewed slides of the -- they were all cytology,</p> <p>22 correct?</p> <p>23 A. Yes.</p> <p>24 Q. So none of them were slides of the</p> <p>25 aborted tumor, correct?</p>

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<p style="text-align: right;">Page 30</p> <p>1 A. If there were slides of a tumor, I'm not 2 aware that they exist. I never saw any. 3 Q. Okay. You've testified in a number 4 of -- I'm sorry, you testified that you've 5 testified for the plaintiffs in a number of 6 asbestos lawsuits, correct? 7 A. Yes. 8 Q. How many of them would have been 9 mesothelioma cases? 10 A. Probably most of them. It just seems 11 like most of the cases that finally wind up in 12 court are mesothelioma cases. So I would estimate 13 80 percent. 14 Q. Now let me broaden this a little bit. 15 In this case, you've testified that you reached 16 your diagnosis on the basis of cytology alone, 17 correct? 18 A. Yes. 19 Q. How many other cases have you been 20 retained in where you reached a diagnosis of 21 mesothelioma based solely on cytology? 22 A. Well, understanding that those would be 23 specific cases in which cytologic material only 24 was available, I'd say about ten percent of all 25 the mesothelioma cases are of that type.</p>	<p style="text-align: right;">Page 32</p> <p>1 MR. ZOELLER: What I'm asking is, I want 2 to know what cases he was retained in where he 3 rendered a diagnosis solely on the basis of 4 cytology. 5 MR. NOVAK: All right. So you want him 6 to take the time to research all his past case 7 work to make a determination as to the percentage 8 of the cases that were based on cytology? 9 MR. ZOELLER: I want the names of the 10 cases where he rendered a diagnosis based solely 11 on cytology. 12 MR. NOVAK: And you want him to take the 13 time to go back and do that? 14 MR. ZOELLER: Absolutely. 15 MR. NOVAK: All right. And are you 16 willing or is your client willing to pay for him 17 to perform those services? 18 MR. ZOELLER: Yeah, absolutely. 19 MR. NOVAK: Okay. 20 MR. ZOELLER: Okay. If the doctor would 21 give me an estimate of how much time it will take, 22 I'd be glad to arrange appropriate payment, but 23 I'd like the names of all such cases. 24 MR. NOVAK: Are you capable of doing 25 that?</p>
<p style="text-align: right;">Page 31</p> <p>1 Q. I'm asking specifically, Doctor, where 2 you rendered the diagnosis. Would you say ten 3 percent of the cases that you diagnosed were based 4 on cytology alone? 5 A. In my primary practice of pathology? 6 Q. I'm talking about solely litigated 7 cases, Doctor. 8 A. Again, I said it was about ten percent 9 of the cases in which I was asked to render an 10 opinion at trial involved cytology only. 11 Q. Do you have records that would indicate 12 what those cases were? 13 A. I certainly keep records. I'd have to 14 go back and look at them. But, for example, the 15 very first case that I ever testified in was a 16 cytology-only case in South Florida. 17 Q. Okay. What I'd like you to do, Doctor, 18 is -- we will leave a space open in the deposition 19 for any cases where you rendered a diagnosis based 20 on cytology alone. 21 I'd like identifying information about 22 that litigation, please, to the extent you can 23 provide it. 24 MR. NOVAK: I'm not sure what you're 25 asking. You're asking him to --</p>	<p style="text-align: right;">Page 33</p> <p>1 THE WITNESS: I think it's going to be a 2 massive undertaking. I've seen probably 500 cases 3 of mesothelioma. So I'd have to review each and 4 every one of those cases to see which ones were 5 cytology only. 6 MR. NOVAK: And do you have a general 7 understanding, I mean just general understanding 8 of approximately how much time it might take to do 9 that? 10 THE WITNESS: Days. 11 MR. NOVAK: Do you have the time to be 12 able to do that? 13 THE WITNESS: I really don't. 14 MR. NOVAK: If you were to have the time 15 to do that, how much time -- based upon your 16 scheduling, how far out into the future would it 17 take to get that done? 18 THE WITNESS: Probably it would take me 19 somewhere around a month, the next month to get 20 that completed. 21 MR. NOVAK: Are you able to live with a 22 month? 23 MR. ZOELLER: I'm able to live with a 24 month. As long as it gives me lead time before 25 the trial, that's fine.</p>

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1 MR. NOVAK: All right. If you can do
2 that -- I mean why don't you make a determination
3 what you think it would cost for billing, because
4 if he's going to do it, he needs to be able to be
5 prepared to pay for that.

6 THE WITNESS: I understand.

7 MR. ZOELLER: That's fine.

8 Q. (BY MR. ZOELLER) Okay. When you
9 reviewed the slides, what factors, what aspects of
10 the cells that you reviewed led you to the
11 diagnosis of malignant mesothelioma?

12 A. Well, I think it's summarized in my
13 report. As I said earlier, when I went into the
14 case, I didn't think the slides were going to show
15 any evidence of malignancy.

16 So I was surprised when I saw the
17 pleural fluid and the fact that malignant cells
18 were present. So I set about the work of
19 determining what types of cells they were.

20 Just briefly summarizing, clearly they
21 had mesothelial features. This is typical of
22 malignant mesothelial cells that are exfoliated
23 into a pleural fluid specimen.

24 The cells were round and looked very
25 much like the benign mesothelioma cells around

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1 mesothelioma cells showed what we term reactive
2 features. So reactive atypia is a term we use in
3 cytology for those types of cells.

4 Q. Okay. And you distinguished those
5 atypia how again, Doctor?

6 A. The reactive cells still retain pretty
7 much the benign architecture of their totally
8 benign counterparts. They don't show the other
9 characteristics of malignancy that I just
10 described.

11 Q. As a general proposition, Doctor, would
12 you agree that it's often difficult to separate
13 mesotheliomas from other malignancies of the
14 pleuroperitoneum?

15 A. No, I disagree with that. I think the
16 science has matured substantially in the last 20
17 years, and we can now diagnose malignant
18 mesothelioma with great precision and
19 differentiate it from other metastatic lesions in
20 pleura.

21 Q. Okay. Doctor, what I'd like to ask you
22 is, I'd like to know all support you have for the
23 proposition, in the medical literature, textbooks,
24 wherever, for the notion that you can diagnose
25 malignant mesothelioma solely through cytology.

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1 them.

2 But the reason that they appeared
3 malignant was the twofold variation or greater in
4 nuclear size, the indentation of the nuclei, the
5 nuclear chromatin pattern, the presence of
6 enlarged nuclei, the altered nuclear cytoplasmic
7 ratio, and then structurally the fact that the
8 tumor cells were forming acinar and papillary
9 structures, which is quite typical of an
10 epithelioid malignant mesothelioma.

11 Q. Now I take it you'd expect to find
12 mesothelioma cells, correct, in --

13 A. Yes.

14 Q. -- cytology?

15 A. And, in fact, I did find them.

16 Q. Okay. And those are the cells you're
17 testifying that you found some abnormalities in,
18 correct?

19 A. No. There was a population of benign
20 mesothelioma cells in the background, and then
21 intermixed with them were the malignant
22 mesothelioma cells which were quite different.

23 Q. Were there other cells that showed any
24 atypia, in your view?

25 A. Well, a small number of the benign

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1 A. Well, I think there's a large volume of
2 literature. I was not asked to bring that
3 literature today.

4 But certainly the standard textbooks by
5 Koss, for example, and other world-renowned
6 cytopathologists indicate that the diagnosis of
7 mesothelioma can be readily rendered through
8 cytology.

9 If you look at multiple editions of the
10 American Journal of Cytopathology over the past
11 ten years, you'll see repeated articles describing
12 the primary diagnosis of malignant mesothelioma by
13 cytology. So --

14 Q. I hear you. Can you name --

15 MR. NOVAK: Excuse me. Hold on just a
16 second.

17 Are you finished with your answer?

18 THE WITNESS: Yes.

19 MR. NOVAK: Okay. Thank you.

20 Q. (BY MR. ZOELLER) Please name one or
21 more of these articles, if you would.

22 A. Well, I can't do that because I didn't
23 know I was going to be asked that question; but I
24 can certainly, after this deposition, provide you
25 with five or ten of the key articles that describe

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<p style="text-align: right;">Page 38</p> <p>1 this science and the ability to make that 2 diagnosis cytologically. 3 Q. I'll take you up on your offer on that, 4 Doctor. I'd call for you to produce any such 5 studies that you're aware of, or other documents, 6 treatises, et cetera. 7 A. I'd be glad to. 8 Q. Okay. Fine. 9 MR. ZOELLER: At this point, knowing 10 some other people have some questions, I'm going 11 to pass. I'll probably get back to a couple 12 things later according to where they go. 13 THE WITNESS: Okay. 14 15 CROSS-EXAMINATION 16 BY MR. PETERBIT: 17 Q. Dr. Pohl, it's a pleasure to finally 18 meet you. My name is John Peterbit. I'm here 19 today on behalf of Crane Company. 20 Were you provided any medical records 21 from the LBJ General Hospital? 22 A. If I was, I don't recollect receiving 23 them. 24 Q. It would have been about 192 pages 25 worth.</p>	<p style="text-align: right;">Page 40</p> <p>1 Dr. Roggli and his capacity and respectability as 2 a pathologist in the field, the relevant, legal -- 3 I mean the scientific community. 4 MR. NOVAK: Why don't you start over 5 again -- 6 MR. PETERBIT: Sure. 7 MR. NOVAK: -- because I'm not sure if 8 you're asking about the legal community or the 9 scientific community right now. 10 MR. PETERBIT: Strike the whole 11 question. 12 Q. (BY MR. PETERBIT) What is your 13 professional opinion as to how Dr. Roggli is 14 received in the professional community as a 15 pathologist? 16 A. I've been asked that question before, 17 and my honest answer is, I don't know what his 18 diagnostic skills are on a day-to-day basis as he 19 works at the Veterans Administration Hospital 20 where his primary work site is. 21 I do know that Dr. Roggli is not a board 22 certified cytopathologist, and I further know that 23 Dr. Roggli is of the view that you cannot diagnose 24 mesothelioma by cytology. 25 Q. What about Dr. Sporn, do you know if</p>
<p style="text-align: right;">Page 39</p> <p>1 A. I don't think so. 2 Q. And what you have is in front of you 3 that has been provided to you, or does he -- 4 MR. PETERBIT: Do you have the file? 5 THE WITNESS: The file is right here 6 (indicating). 7 Q. (BY MR. PETERBIT) The file is right 8 here. 9 This is the extent of the medical 10 records you've been provided? 11 A. No. I did not bring the medical 12 records. 13 Q. Okay. Do you have an approximation 14 as to how many pages of medical records you 15 reviewed? 16 A. My recollection is it was about 17 three-quarters of an inch thick. 18 Q. Have you discussed this case with 19 Dr. Segura? 20 A. No, I have not. 21 Q. Have you been made aware that Dr. Roggli 22 has also reviewed the pathology in this case and 23 issued a report? 24 A. I have not. 25 Q. What is your opinion as far as</p>	<p style="text-align: right;">Page 41</p> <p>1 Dr. Sporn is board certified in cytopathology? 2 A. I don't know him. 3 Q. What about Dr. Ory, do you know if 4 Dr. Ory is board certified in cytopathology? 5 A. No, I don't. 6 Q. Other than yourself, are you aware of 7 any other pathology experts in the asbestos 8 litigation that has a certification in 9 cytopathology? 10 A. Any other experts? 11 Q. Yes, that you're familiar with. 12 A. I wouldn't know one way or another. 13 Q. Once you've taken a test -- I assume 14 there's a test or something to go through to get a 15 certification in cytopathology, or cytology, 16 whatever -- 17 A. It's the board examination administered 18 by the American Board of Pathology. 19 Q. Is that a test that has to be retaken 20 with any frequency or regularity? 21 A. No, there's no recertification for it. 22 Q. And you took the test for that. What 23 year was that? 24 A. It's in my CV. I believe it was around 25 1997.</p>

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<p style="text-align: right;">Page 42</p> <p>1 (Defendants' Deposition Exhibit No. 5 2 was marked for identification by the reporter.) 3 Q. (BY MR. PETERHIT) I'll hand you 4 Dr. Roggli's report in this case. Certainly I 5 want you to have a chance to look at it. 6 Does it appear, my first question, that 7 the pathologic materials reviewed by Dr. Roggli 8 were the same pathologic materials that you 9 reviewed based on the accession numbers? 10 A. Yes, they are. 11 Q. And obviously Dr. Roggli's conclusion in 12 this matter is that this -- well, actually if you 13 could read into the record, what does Dr. Roggli 14 conclude? 15 A. He says: These slides show atypical 16 epithelial cells, suspicious for malignancy. 17 He goes on to say: The above cytologic 18 findings are suggestive but not diagnostic for 19 carcinoma of the lung. A diagnosis of 20 mesothelioma cannot be made from this material, 21 and, indeed, mesothelioma should not be diagnosed 22 based on cytologic specimens alone. 23 Q. He gives two references for that last 24 opinion, that mesothelioma should not be 25 diagnosed -- I don't think he says could but</p>	<p style="text-align: right;">Page 44</p> <p>1 article -- the authors indicate -- the comments 2 here concern tissue specimens. 3 We have purposely chosen not to cover 4 the issue of purely cytologic diagnosis because 5 there is considerable disagreement about its 6 accuracy, which, in some reports, is relatively 7 low. 8 Did I read that correctly? 9 A. Yes, you did. 10 Q. Okay. Now when they say that -- they 11 cite to an article for that statement that: In 12 some reports, is relatively low, regarding the 13 accuracy. 14 And the cite is 15, and that's an 15 article by a group of authors, including 16 Dr. Sugarbaker, which I'm sure you're familiar 17 with. 18 We have 15 right here (indicating). Are 19 you familiar with this article? 20 A. I am. Two of the authors are surgeons, 21 and so they're not pathologists and not skilled in 22 the diagnosis of mesothelioma. 23 Q. And, for the record, cite 15 is an 24 article by lead author Renshaw entitled The Role 25 of Cytologic Evaluation of Pleural Fluid in the</p>
<p style="text-align: right;">Page 43</p> <p>1 should not be diagnosed based on cytologic 2 specimens alone. 3 The first one appears to be his second 4 edition of his book, treatise on 5 Asbestos-Associated Diseases. 6 Are you familiar with the second 7 article? 8 A. Yes. 9 Q. Okay. Are you familiar enough with that 10 second article cited by Dr. Roggli to state 11 whether or not you believe that that article also 12 would indicate that the diagnosis from 13 cytopathology alone is not sufficient? 14 A. I don't think that's what that article 15 stated. 16 Q. And, by the way, that second article, 17 this is actually an article written by -- every 18 single author was a member of the United States 19 Canadian Mesothelioma Panel? 20 A. That's correct. That's what the article 21 was, was a discussion arising from that panel on 22 the diagnosis of benign versus malignant 23 mesothelial proliferations. 24 Q. I actually have that with me, and I 25 think I do agree with you at least inasmuch as the</p>	<p style="text-align: right;">Page 45</p> <p>1 Diagnosis of Malignant Mesothelioma from the 2 Journal of Chest, 1997, Volume 111, Pages 106 to 3 109. 4 Would you consider that article to be 5 reliable, a peer-reviewed journal? 6 A. Concerning what issue though? 7 Q. Well, its topic. 8 A. Well, I think that it's an article that 9 addresses a variety of different issues related to 10 the diagnosis of mesothelioma. 11 But I believe that any assertion that 12 the diagnosis cannot be rendered on cytologic 13 material is inconsistent with the specialty of 14 cytopathology and the experts worldwide that 15 practice that discipline. 16 Q. So do you dispute the statement that, in 17 some reports, the accuracy of purely cytologic 18 diagnosis of mesothelioma is relatively low? 19 A. There are some reports. Those reports 20 are looking at general pathologists, such as 21 Dr. Roggli, rendering a diagnosis of mesothelioma 22 on routine cytology without the skill set to do 23 that. 24 I think if you look at other 25 publications in which cytopathologists are</p>

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1 rendering the diagnosis, the accuracy is quite
 2 high and is often equivalent to tissue diagnosis.
 3 Q. And that's in the materials that you'll
 4 be providing to us?
 5 A. Absolutely.
 6 Q. By the way, did you take any pictures --
 7 A. I did.
 8 Q. -- any photomicrographs?
 9 A. Yes. I have an electronic version of
 10 them, and what I would offer is to e-mail them to
 11 the court reporter for you to review.
 12 Q. Do you know how many you took? I didn't
 13 see a notation of how many.
 14 A. Approximately eight or ten
 15 photomicrographs.
 16 Q. Did you perform any additional stains to
 17 the slides that you had been provided?
 18 A. No, I did not have a paraffin block
 19 available.
 20 Q. I thought you said -- I thought number 2
 21 in your report said you had a paraffin block.
 22 A. That's from the bronchial washings taken
 23 during bronchoscopy. It's not from the pleural
 24 fluid.
 25 Q. Would you have been able to make slices

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1 requested one or saw a need for one.
 2 Q. I'll hand you the certificate of death
 3 listing pulmonary -- or respiratory failure and
 4 pulmonary carcinoma as the cause of death.
 5 Did I read that correctly?
 6 MR. NOVAK: You incorrectly read it.
 7 THE WITNESS: It says: Respiratory
 8 failure and pulmonary cancer.
 9 Q. (BY MR. PETERREIT) Pulmonary cancer, I
 10 apologize.
 11 MR. NOVAK: So what's your question?
 12 Q. (BY MR. PETERREIT) The doctors --
 13 everyone treating Mr. Gardea up to his passing had
 14 essentially written this off as a bronchogenic
 15 carcinoma or pulmonary cancer?
 16 A. From the records I had, that's not the
 17 case. I found no evidence in the records that
 18 anybody has diagnosed him as having lung cancer.
 19 Q. Was that the number one suspicion in the
 20 medical records that you reviewed?
 21 A. I certainly think there was some concern
 22 about it because of the bilateral hilar masses,
 23 but the physicians repeatedly stated that they had
 24 been stable for five years, which would be
 25 inconsistent with a malignancy, and, therefore,

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1 on that block and do preparations and do some
 2 staining?
 3 A. I could have, but I would not have found
 4 it useful because the differential diagnosis in
 5 this case is clearly one of malignant versus
 6 benign mesothelial proliferation.
 7 So doing special stains would only be
 8 helpful in distinguishing an adenocarcinoma from a
 9 mesothelioma and, from a cytologic perspective,
 10 this is clearly a mesothelial tumor.
 11 Q. Bronchogenic carcinoma has no
 12 mesothelioma origin?
 13 A. That's correct.
 14 Q. Have you seen the certificate of death
 15 in this case?
 16 A. I have not.
 17 Q. Do you know if an autopsy was performed?
 18 A. I don't believe it was.
 19 Q. You mentioned earlier that there was --
 20 that there was no other sources of material, but
 21 an autopsy could have been done in this case and
 22 wasn't, true?
 23 A. I don't know if an autopsy could or
 24 couldn't have been done. There's nothing in the
 25 records that indicate that the treating physicians

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1 they did not feel that he had a malignancy.
 2 MR. PETERREIT: Can we make that an
 3 exhibit as well, please?
 4 THE REPORTER: Sure.
 5 (Defendants' Deposition Exhibit No. 6
 6 was marked for identification by the reporter.)
 7 Q. (BY MR. PETERREIT) Did you see any
 8 reference in the medical records you reviewed of
 9 the doctors based on that five-year consistency in
 10 the two tumors or apparent tumors, the masses --
 11 let's call them lung masses -- that was more
 12 suggestive of silicosis?
 13 A. I think that was discussed, that it was
 14 a benign process, quote, like silicosis.
 15 Q. And silicosis can cause death, can it
 16 not, advanced?
 17 A. If it produces pulmonary silicosis, yes.
 18 I saw no evidence of that in Mr. Gardea.
 19 Q. What would you have been looking for or
 20 seen to show you that there was -- that it had
 21 this pulmonary aspect?
 22 A. On x-ray, you see what's been termed a
 23 reticulonodular pattern on x-ray, and the x-ray
 24 reports that I reviewed never mentioned anything
 25 of that type.

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<p style="text-align: right;">Page 50</p> <p>1 Q. Dr. Segarra, in fact, did he not call 2 this a mixed dust pneumoconiosis, including 3 silicosis? 4 A. Yes. 5 Q. Dr. Segarra, being board certified in 6 pulmonary medicine and a NIOSH certified B-reader 7 diagnosed silicosis in this case, did he not? 8 A. Silico-anthraco-sis is very common. 9 That's found probably in you and I. He called it 10 chronic simple silicosis. 11 Q. And pulmonary asbestosis? 12 A. Yes. 13 Q. To a degree of medical certainty, 14 reasonable medical certainty? 15 A. Correct. 16 Q. He also found chronic obstructive 17 pulmonary disease with bullous emphysema, true? 18 A. Yes. 19 Q. Both of those are caused not by asbestos 20 but more likely by smoking, true? 21 A. That's correct. 22 Q. And Mr. Gardea had a very significant 23 long history of smoking, did he not? 24 A. Thirty-two years worth, yes. 25 Q. And if you feel qualified to give this</p>	<p style="text-align: right;">Page 52</p> <p>1 THE WITNESS: I don't know. 2 Q. (BY MR. PETERREIT) Have you ever given 3 an opinion in a case of mesothelioma in which it 4 was an alleged household exposure? 5 A. Yes. 6 Q. And your opinion, I assume, was that the 7 wives or the children that had developed 8 mesothelioma had obtained their dose from the 9 clothing of their husbands, spouses, boyfriends, 10 brothers, and sisters? 11 A. That's correct. 12 Q. So my question is: Taking that to the 13 silica side, is it possible then that if 14 Mr. Gardea's father had enough exposure to kill 15 him at the age of 56 that he could have been 16 bringing home silica dust to his family? 17 MR. NOVAK: Object to the form of the 18 question. It's calling for speculation, and 19 you're extrapolating one against the other. 20 That's why it's inappropriate. 21 MR. PETERREIT: It's "objection to form" 22 in Texas, Counsel. 23 MR. NOVAK: I'm allowing you to -- I'm 24 giving you more specifics so you can try to fix it 25 if you want. Otherwise, you're going at your own</p>
<p style="text-align: right;">Page 51</p> <p>1 opinion, do you believe that that is a significant 2 enough smoking history to produce bullous 3 emphysema, or would you normally expect a much 4 higher pack-year history? 5 A. No, that's about the level of smoking 6 that would produce emphysema. 7 Q. When did Mr. Gardea pass away, if you 8 know? 9 A. He died on 9-12-02. 10 Q. Did you note that Mr. Gardea had a 11 reported history of asthma in any of the medical 12 records you reviewed? 13 A. Yes. 14 Q. Did you note that his father died of 15 silicosis at the age of 56? 16 A. Yes. 17 Q. What is your opinion as to whether or 18 not Mr. Gardea may have been exposed to secondary 19 silica dust from any clothing that his father may 20 have brought home? 21 A. I don't have any evidence one way or 22 another. I just don't know. 23 Q. Is it possible? 24 MR. NOVAK: Object to the form of the 25 question. Calling for speculation.</p>	<p style="text-align: right;">Page 53</p> <p>1 peril. 2 THE WITNESS: The literature on 3 household mesothelioma exposure is very rich, but 4 I'm unaware of any literature of any significance 5 concerning household silica exposure. So I just 6 don't think so. 7 Q. (BY MR. PETERREIT) Would you defer to an 8 industrial hygienist or somebody familiar with the 9 way that dusts may be placed into the air, put 10 into breathing zones, their retention on clothing, 11 and any studies done in that regard? 12 A. Specific to silica, sure. 13 Q. Do you know anything about the actual 14 physical features of a silica dust versus an 15 asbestos dust to indicate that it would behave 16 differently in the air or in its deposition upon 17 clothing? 18 A. Yes. 19 Q. What is that? 20 A. Silica tends to be round. It's not 21 retained or aerodynamic in the air, whereas 22 asbestos is more thin and needle-like and, 23 therefore, is aerodynamic. Therefore, asbestos 24 stays in the breathing zone longer than silica. 25 The other issue is that asbestos readily</p>

14 (Pages 50 to 53)

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1 transmigrates from the lung to the pleura, whereas
 2 silica does not.
 3 So there's been no study that shows that
 4 silica plays any role in mesothelioma whereas
 5 clearly asbestos does.
 6 Q. When Dr. Segarra refers to this as
 7 chronic simple silicosis and pulmonary asbestosis,
 8 in your opinion, the "simple" word, does that
 9 modify both silicosis and asbestosis?
 10 A. To be honest with you, I don't know what
 11 he means by that term.
 12 MR. NOVAK: If we can find him after
 13 this hurricane, we'll all ask him. Last I heard
 14 he was clutching to his chimney on his house.
 15 Q. (BY MR. PETERREIT) Did you note
 16 anything, any social history or work history,
 17 occupational history in the medical records that
 18 you reviewed that Mr. Gardea had worked in gold
 19 mines for between 10 and 20 years?
 20 A. No.
 21 Q. Would that have been significant to you
 22 with regard to any potentialities for dust
 23 exposures?
 24 A. Well, certainly in a mining environment,
 25 he would have had dust exposures, but I would need

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1 to know more.
 2 Q. That wasn't reported to you by the
 3 Hissey Kientz Law Firm in his work history?
 4 A. That's correct.
 5 Q. It wasn't in Dr. Segarra's report?
 6 A. Correct.
 7 Q. All I have is my computer with me.
 8 Since you don't have those medical records, if you
 9 don't mind, I'd like to bring this up to you just
 10 to review a couple medical records.
 11 A. Sure.
 12 Q. You're probably getting used to this.
 13 As technology comes along, I guess lawyers have to
 14 adapt too.
 15 MR. NOVAK: Are you going to put an
 16 exhibit sticker right there (indicating)?
 17 MR. PETERREIT: I'll be more than glad
 18 to --
 19 MR. NOVAK: I want to attach that.
 20 MR. PETERREIT: I'm going to call these
 21 out by page numbers, and if you'd like for me to
 22 get a copy of these to the court reporter,
 23 Mr. Novak, I'd be certainly willing to do that.
 24 MR. NOVAK: Let's just see what your
 25 questions are first.

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1 MR. PETERREIT: Sure.
 2 Q. (BY MR. PETERREIT) Doctor, can you see
 3 my screen okay? I'll make sure I've got the
 4 brightness all the way up.
 5 A. Yes, I sure can.
 6 Q. Okay. Let's first go up here to the top
 7 so you can see the authenticating affidavit from
 8 the records custodian.
 9 Well --
 10 MR. NOVAK: Why don't you just ask your
 11 questions. I'm not going to worry about
 12 authentication right at the moment.
 13 MR. PETERREIT: Well, okay. But I guess
 14 it needs to see the CD to review the records.
 15 MR. NOVAK: Somehow I think Weinstein on
 16 evidence still hasn't taken this into
 17 consideration.
 18 MR. ZOELLER: Safe bet.
 19 Q. (BY MR. PETERREIT) It's not going to
 20 cooperate now. Let's just do it again.
 21 Don't give me that.
 22 MR. NOVAK: John, is there a particular
 23 question?
 24 MR. PETERREIT: There's a lot of
 25 questions. There's a lot of them here. I'm

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1 sorry. Just bear with me here.
 2 Q. (BY MR. PETERREIT) Okay. Here we go,
 3 the records from Lyndon Baines Johnson General
 4 Hospital in Houston, Texas.
 5 And my first record I'd like to point
 6 out to you -- actually have you seen any
 7 indications in the medical records that you
 8 reviewed of a prior finding of pneumonia in
 9 Mr. Gardea?
 10 A. Yes.
 11 Q. Pneumonia can cause fibrotic changes in
 12 the interstitial lung spaces, true?
 13 A. Yes.
 14 Q. I'll go to Page 27 of 192.
 15 MR. NOVAK: Off the record.
 16 (Thereupon, there was a discussion held
 17 off the record.)
 18 Q. (BY MR. PETERREIT) Okay. Page 27, this
 19 is a discharge summary. Let's see where it's
 20 from. Doctors Kamal Gupta and Bavaray Arusha
 21 (phonetic). It appears the admission date was
 22 January 4th of 2000 and a discharge of January
 23 12th.
 24 Under the heading of Social History,
 25 you'll note that it says: He was a construction-

15 (Pages 54 to 57)

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<p style="text-align: right;">Page 58</p> <p>1 worker in the United States, and he relates a 2 history of exposure to silicosis after working in 3 the mines in Mexico for 20 years but, during the 4 construction, did not give any history of exposure 5 to asbestos. 6 Do you see that? 7 (Mr. Zoeller left the room.) 8 THE WITNESS: Yes. 9 Q. (BY MR. PETEREIT) And this was a time 10 that Mr. Gardea had not sought legal counsel. He 11 was merely trying to get better by talking to his 12 doctors, true? 13 A. I don't know the circumstances, but 14 clearly he reports working in the mines, I assume, 15 when he was very young in Mexico and then was 16 unaware that he had been exposed to asbestos in 17 the construction industry. 18 Q. It also relates that his father had died 19 of silicosis at the age of 56 under the family 20 history? 21 A. Yes. 22 Q. By the way, what is pulmonary edema, and 23 did that in any way come into your differential 24 diagnosis in this case? 25 A. Pulmonary edema is the accumulation of</p>	<p style="text-align: right;">Page 60</p> <p>1 called the mediastinum. The trachea, which is the 2 main airway that extends back there, it has lymph 3 nodes along it, and so he's referring to the ones 4 in the lower part of the trachea as well as lymph 5 nodes that surround the aorta that runs right near 6 the trachea. 7 Q. Is it saying that that's where the 8 effusion was found, or is it merely just 9 describing the size of those lymph nodes? 10 A. No, I think what he's describing is the 11 pleural effusion and then separately lymph nodes 12 that were almost two cm. in size. 13 Q. What is a dependent pleural effusion as 14 compared to an independent pleural effusion? 15 A. It means that it flows with gravity. So 16 if somebody is standing, it will be in the lower 17 part of the chest. If they lay down, it will be 18 in the posterior part of the chest. 19 Q. Thank you. 20 Let's jump down here to Page 53 of 192. 21 These appear to be dated January 9th of 2000. 22 These would appear to be progress notes from, it 23 says, Team MSS, Roman numeral III, Team D Progress 24 Note. 25 A. No, that means it's a medical student.</p>
<p style="text-align: right;">Page 59</p> <p>1 water in the lung, and it did not enter into my 2 diagnostic consideration. 3 Q. Further down in this report, this is on 4 Page 28, the doctor is -- let's see what he's 5 doing here. This is the Hospital Course heading, 6 Page 3 of 3. 7 A. Yes. 8 Q. The report that a CT scan had been read 9 as showing a right hilar mass consistent -- 10 THE REPORTER: A right what mass, I'm 11 sorry? 12 MR. PETEREIT: Hilar, h-i-l-a-r. 13 THE REPORTER: Thank you. 14 MR. NOVAK: You can see it right there 15 (indicating). 16 Q. (BY MR. PETEREIT) -- mass consistent 17 with bronchogenic carcinoma, bilateral dependent 18 pleural effusion, and, what is that, approximately 19 1.8 centimeters right lower paratracheal and 20 periaortic lymph nodes. 21 (Mr. Zoeller entered the room.) 22 Q. (BY MR. PETEREIT) What does the lymph 23 node reference there? You have to bring me up to 24 speed on what they're talking about. 25 A. In the middle part of the chest is</p>	<p style="text-align: right;">Page 61</p> <p>1 A year three medical student wrote the progress 2 note. 3 Q. Would that have been something that a 4 doctor was dictating to him to write down in usual 5 practice, or this is just something from his 6 observation? 7 A. This is his progress note. Typically 8 they're cosigned by somebody at the bottom after 9 the medical student signs it. I don't know if 10 that was the case here. 11 (Mr. Shepherd left the room.) 12 Q. (BY MR. PETEREIT) Okay. We can look 13 down at that. 14 Can you read where it says: He reports 15 this morning that he was -- I'm sorry: That he, 16 something, worked in the mines before for 17 approximately ten years, from approximately 1947 18 to 1957, and that he has silicosis, no other 19 complaints? 20 A. Yes, I see that. 21 MR. RICE: What page is that? 22 Q. (BY MR. PETEREIT) You probably read 23 doctor scribble better than I do. 24 MR. RICE: What page is that? 25 MR. PETEREIT: That's Page 53 of 192.</p>

16 (Pages 58 to 61)

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<p style="text-align: right;">Page 62</p> <p>1 MR. NOVAK: They do their best work at 5 2 a.m. 3 MR. PETEREIT: He was burning the 4 midnight oil on that one. 5 Q. (BY MR. PETEREIT) Let's see if there 6 was actually somebody that signed off on this one. 7 A. Yes, multiple. 8 Q. Going on to Page 55 of 192, a pulmonary 9 fellow addendum, dated 1-9 of 2000 at, what, 2:10 10 in the afternoon, reports of a long tobacco 11 history. Suspect COPD. And then it says: Who 12 worked as a cement worker. 13 Is this the first -- your first 14 indication that he may have been working as a 15 cement worker? 16 A. Yes. 17 Q. Is there the potential for exposure to 18 airborne asbestos fibers, from your experience, to 19 cohorts of cement workers? 20 A. If they were working with a cement-based 21 asbestos product, absolutely. 22 Q. That's been repeatedly -- one would have 23 no problem finding articles in peer-reviewed 24 medical literature regarding asbestos-exposed 25 cement worker populations?</p>	<p style="text-align: right;">Page 64</p> <p>1 between 10s and 20s age -- 2 A. Correct. 3 Q. -- in other words, when he was very 4 young, and then: Cement business -- I have no 5 idea what that says in parentheses -- for 40 6 years. "Paving" maybe. 7 MR. NOVAK: It looks like "pouring." 8 Q. (BY MR. PETEREIT) So we have another 9 reference to a doctor taking an occupational 10 history of a 40-year cement business work history, 11 true? 12 A. Yes. 13 Q. And in none of -- still, we have yet to, 14 in any of these occupational histories being taken 15 by his doctors, see any reference to insulation 16 petrochemical refinery work, or asbestos exposure, 17 true? 18 A. Not in these records, that's correct. 19 Q. But based on what you've been told and 20 represented about this case, certainly by 2000, he 21 had been reported to have been working as an 22 insulator in foundries and refineries, true? 23 A. That was reported to me later, after 24 these notes. 25 Q. Do you know -- well, 1960 to 1978, is</p>
<p style="text-align: right;">Page 63</p> <p>1 A. That's correct. 2 MR. RICE: I'm sorry, could you repeat 3 the page number on that again? 4 MR. PETEREIT: 55 of 192. 5 MR. RICE: Thank you. 6 Q. (BY MR. PETEREIT) Let's go to 61 of 192 7 now, a continued doctor's note from 1-10 of 2000. 8 Do you see here: On further 9 consultation -- I don't know what that means. 10 A. Conversation with Mr. Gardea. 11 Q. Does that say "he reports"? 12 A. Uh-huh. 13 Q. And what does that -- well, he 14 reports -- 15 (Mr. Shepherd entered the room.) 16 Q. (BY MR. PETEREIT) -- something past 17 occupational history? 18 A. It almost looks like "intensity" or 19 "industry past occupational history." 20 MR. NOVAK: "Interesting"? 21 THE WITNESS: Or "interesting past 22 occupational history." 23 MR. PETEREIT: Good job. Good job. 24 Q. (BY MR. PETEREIT) Underneath there are 25 two bolded points, one gold mining for ten years</p>	<p style="text-align: right;">Page 65</p> <p>1 that about when it says that he would have been 2 working in these locations? 3 A. Yes. 4 Q. And those were all prior to 2000 -- 5 A. Correct. 6 Q. -- when he gave his past occupational 7 history to his physicians? 8 A. Yes. 9 Q. Do you know the source, by the way, of 10 that block that we were -- the pathologic block, 11 paraffin block, did that come from pleural fluid? 12 Do you know if that was from a needle biopsy? 13 A. Bronchial washings. 14 Q. Okay. It was bronchial washings. 15 That will help me out then here. Do you 16 see that -- there's a reference to his history of 17 silicosis, and he's undergone -- 18 A. Workup by CT, bronchoscopy, and 19 transthoracic needle biopsy about three years ago. 20 At this time, told this was either cancer or 21 silica. 22 MR. RICE: What page is this? 23 MR. NOVAK: 61. 24 MR. PETEREIT: This is 61 still. 25 Q. (BY MR. PETEREIT) So there appears to</p>

17 (Pages 62 to 65)

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1 have been a needle biopsy. That would have
2 actually been a core, needle core biopsy of some
3 actual tissue?

4 A. That's correct.

5 Q. That might still exist out there for us
6 to potentially do some pathologic evaluation on?

7 A. Possibly. The implication from the note
8 is that it was non-diagnostic.

9 MR. RICE: Is that talking about the
10 '80s biopsy?

11 MR. PETERREIT: This is in 2000. It says
12 approximately three years ago. So I'm assuming
13 that's the '97 time frame.

14 MR. RICE: Okay.

15 Q. (BY MR. PETERREIT) They talk about chest
16 x-rays A&P?

17 A. Yes, assessment and plan.

18 Q. Okay. Nodular chest x-rays. Changes
19 bilaterally.

20 Help me read this.

21 A. Left upper lobe and right hilum. It
22 seems only minimally changed over the past three
23 years. These findings are most consistent with
24 progressive massive fibrosis with coalescence into
25 nodules seen in silica and/or other inhalational

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1 dust injuries.

2 Q. Do you agree with that?

3 A. Yes.

4 Q. Now they also talk about something
5 complicating --

6 A. To complicate matters, he has an
7 increased Co2, which limits --

8 MR. NOVAK: Infectious?

9 (Mr. Rice left the room.)

10 MR. NOVAK: That's a tough one.

11 Q. (BY MR. PETERREIT) I won't make you try
12 and do it, but it limits something also.

13 Recommend CT from 1-97 to 1-2000.

14 What's a PPD status?

15 A. That's a tuberculin skin test.

16 Q. Thoracentesis to be com --

17 A. Completed.

18 Q. -- completed. No plan for bronchoscopy
19 at this time?

20 A. Correct.

21 Q. Going to Page 66 of 192 -- and actually
22 before I -- would you appreciate the ability to
23 review this additional set of medical records,
24 and, in doing so, do you think it would assist in
25 your providing maybe a supplemental or an addendum

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1 report to your initial report in this case?

2 A. I certainly can add to the database of
3 knowledge I have at present by reviewing these
4 notes, although it won't change my diagnostic
5 impression in this case.

6 Q. Here we have a 1-11-2000, under the --
7 of an abbreviation for what I assume is
8 "respiratory." The signing doctor indicates,
9 Dr. Gupta, I believe --

10 A. Yes.

11 Q. -- that they have compared the '97 and
12 2000 CT scan and radiology attendings, and there
13 is no change in the lung masses over the last
14 three years, making malignancy very unlikely?

15 A. Correct.

16 Q. I assume they're talking about the
17 masses?

18 A. That's correct. And I agree with that.

19 Q. It says: The bilateral pleural
20 effusions are now but are likely transudative.

21 What does that mean, versus exudative?

22 A. When the pleural surface is irritated,
23 fluid will weep across almost as if you were
24 scraping your skin; you get that weeping of fluid
25 off of the skin. Well, that happened inside.

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1 That's a transudate.

2 (Mr. Rice entered the room.)

3 THE WITNESS: An exudate is actually a
4 thicker, more proteinaceous fluid that accumulates
5 as a consequence of cells migrating into the
6 pleural space.

7 Q. (BY MR. PETERREIT) With a pleural
8 effusion in the case of malignant mesothelioma,
9 are they traditionally transudative or exudative?

10 A. They can be either. It depends on the
11 mesothelioma and the extent. But, for the record,
12 I don't believe his effusions in 2000 had anything
13 to do with a mesothelioma.

14 Q. You believe the mesothelioma was --
15 actually, do you have an opinion as to when that
16 would have -- when the onset of that disease was?

17 A. Two years later, in 2002.

18 Q. Let's go to Page 90 of 192. This is a
19 December 18th, '97, letter to Dr. Denson from a
20 Dr. Julio Shahar, who reported to be, on his
21 letterhead, a Diplomate, American Board of
22 Internal and Pulmonary Medicine. It appears to be
23 a pulmonary consult.

24 And, again, he reports that there were
25 x-rays and CAT scans done in '85 to '87 time frame

18 (Pages 66 to 69)

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<p style="text-align: right;">Page 70</p> <p>1 which suggested lung cancer, but they're similar 2 to the current pictures in '97; that there was 3 biopsies done apparently in the '85 to '87 time 4 frame, that they were negative for malignancy. 5 Similarly a bronchoscopy with biopsy in '97 were 6 again negative for malignancy. 7 Is that what he reports? 8 A. Yes. 9 Q. His impression then follows that: 10 Although malignancy suggested, the fact lung 11 changes -- although malignancy was suggested, the 12 fact that lung changes are persistently without 13 changes, it looks more for chronic scarring and 14 inflammatory changes. 15 Agree or disagree? 16 A. I would agree with that. 17 Q. It also indicates the patient is 18 refusing the biopsy procedures, true? 19 A. Yes. 20 Q. Do you know what he means when he says: 21 Clinical picture of bronchitis? 22 A. The typical clinical picture is somebody 23 with a chronic cough that produces sputum. 24 Q. I'm sorry. Thank you very much for 25 bearing with me on that one.</p>	<p style="text-align: right;">Page 72</p> <p>1 manifested itself. It probably arose a year and a 2 half before that. 3 Q. Would you agree with me that epithelial 4 mesotheliomas typically obliterate the pleural 5 space and encase the lung? 6 A. In late stages, that's absolutely 7 correct. 8 Q. Is it your opinion then that 9 Mr. Gardia's mesothelioma was not in the late 10 stages? 11 A. Certainly there wasn't evidence of that 12 kind of encasement and caking, and that happens 13 quite often, that the mesothelioma kills the 14 patient for other reasons long before it gets to 15 that late stage. 16 Q. In fact, it's typically the course with 17 mesothelioma patients that some other process, not 18 the actual mesothelioma which kills them, true? 19 A. I think that's partially true. Even to 20 this day, it's hard to determine what in a 21 malignancy actually kills a person. 22 It's usually its complications: 23 respiratory failure, pneumonia, invasion of blood 24 vessels, those types of things. 25 Q. Would you agree that there are a wide</p>
<p style="text-align: right;">Page 71</p> <p>1 A. No problem. 2 MR. PETERREIT: Do you want to take a 3 break? We've been going -- 4 MR. NOVAK: Let's take an eye break. 5 How about ten minutes? 6 MR. PETERREIT: That's fine. 7 (A recess was taken at 1:45 p.m.) 8 (Mr. Zoeller left the room.) 9 (Back on the record at 2:03 p.m.) 10 Q. (BY MR. PETERREIT) Dr. Pohl, we're back 11 on the record. Do you, by any chance -- from the 12 cytologic material you reviewed, were you able to 13 give a more specific histologic diagnosis as to 14 what type of mesothelioma this would be? 15 A. By definition, the cells that were 16 present are the type that would be derived from a 17 tubulopithelial variant of mesothelioma. 18 Q. And you stated earlier you believe the 19 diagnosis -- or that the onset of mesothelioma as 20 best you can stage it or place it, is probably in 21 the 2002 time frame? 22 A. Yes. 23 Q. Within six months of his passing, I 24 believe? 25 A. That's when it first clinically</p>	<p style="text-align: right;">Page 73</p> <p>1 variety of histologic patterns in mesothelioma? 2 A. Yes, there are. 3 Q. And several of those histologic patterns 4 can and do resemble several other types of 5 malignant neoplasms? 6 A. Yes. 7 Q. The materials that you were provided, 8 the pathologic materials, were they of sufficient 9 amount and quality to be able to perform 10 ultrastructural studies? 11 A. No. Potentially they could be done by 12 doing a removal of a small amount of tissue from 13 the paraffin block, but I didn't have access to 14 that. 15 (Mr. Zoeller entered the room.) 16 Q. (BY MR. PETERREIT) And you've already 17 indicated that because this was merely formal and 18 fixed slides there would have been no way to 19 perform any immunohistochemistry? 20 A. Well, they weren't formal and fixed -- 21 well, let me rephrase that. The cell block would 22 have been formal and fixed. The smears would have 23 been alcohol fixed. 24 Q. I guess there was no way we could 25 have -- that anything could have been taken, any</p>

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<p style="text-align: right;">Page 74</p> <p>1 pathologic material could have been taken from the 2 slides and further immunohistochemical stains 3 performed? 4 A. That's untrue. The slides themselves 5 could be destained and immunohistochemical stains 6 performed, but there would have to be agreement on 7 all sides to the destruction of that material. 8 Q. So that is a possibility that remains in 9 this case? 10 A. Yes. 11 Q. Now I noted that you had indicated 12 receipt -- well, actually you say four H&E stained 13 cell block preparations and two smears. So a 14 total of six slides? 15 A. Yes. 16 Q. And did you take photomicrographs of all 17 six slides? 18 A. I did. 19 Q. If we're able to come to an agreement in 20 this case on all sides and destroy what tissue 21 exists on those slides to perform 22 immunohistochemical stains, would that tissue also 23 be sufficient for ultrastructural studies? 24 A. I think there would be too much 25 artifact, but before you go ahead and destroy</p>	<p style="text-align: right;">Page 76</p> <p>1 Q. So we wouldn't able to look at any type 2 of DNA analysis here to see if -- do what is 3 referred to in pathology as a ploidy analysis? 4 A. That could be done from the paraffin 5 block, yes. 6 Q. Would you agree or disagree that a DNA 7 ploidy analysis can be used to distinguish a 8 mesothelioma from other pulmonary carcinomas? 9 A. I would disagree. It can be used to 10 determine a malignant condition from a benign 11 condition in a subset of cases. 12 Q. Are you familiar with the studies or do 13 you agree that mesotheliomas are typically DNA 14 euploid, whereas most adenocarcinomas are 15 aneuploid? 16 A. Correct. 17 Q. You're familiar with Dr. Samuel Hammar? 18 A. Yes, I am. 19 Q. Dr. Hammar is another well-respected 20 pulmonary pathologist which coincidentally also 21 testifies typically for plaintiffs in asbestos 22 litigation? 23 A. That's my understanding. 24 Q. I have in my hand a textbook by 25 Mr. Hammar and Dial --</p>
<p style="text-align: right;">Page 75</p> <p>1 these, I would look for the cell block first. 2 Q. Okay. 3 A. It must exist somewhere. 4 Q. You believe there would have been a cell 5 block from the pleural fluid that would have made 6 it to a beam or -- 7 A. That's correct. That's what those H&E 8 stained slides were prepared from, and so there 9 must be a paraffin block somewhere. 10 Q. So start with the paraffin block first. 11 If not, we possibly could dissolve, I guess, the 12 slides and get material for immunohistochemical 13 stains? 14 A. That's correct. 15 Q. That word gets me all the time. 16 Is the material that -- from the slides, 17 could you -- are you able to observe under the 18 microscope, at the magnification you're using, DNA 19 or chromosomal changes? 20 A. No. 21 Q. Would that require some type of 22 cytogenetic testing? 23 A. Cytogenetic testing, that's correct. 24 Typically that's not done on processed tissue 25 though. It's done on fresh tissue.</p>	<p style="text-align: right;">Page 77</p> <p>1 MR. NOVAK: Dr. Hammar, you mean? 2 Q. (BY MR. PETERBIT) -- Dr. Hammar and 3 Dr. Colby and Dial -- Dial -- is it Dial? 4 A. Dial. 5 Q. -- entitled Pulmonary Pathology Tumors. 6 Do you have this treatise in your 7 offices? 8 A. No. 9 Q. Have you ever referenced it or reviewed 10 portions of it? 11 A. Yes. 12 Q. Do you find it to be authoritative? 13 A. Portions of it, yes. 14 Q. On Page 496 of this treatise, 15 specifically in the chapter written by Dr. Hammar 16 on pleural diseases, he states that: Of concern 17 to pathologists and clinicians is the accurate 18 identification of malignant cells in pleural fluid 19 and, in some instances, differentiation of 20 reactive mesothelioma cells from malignant 21 mesothelioma cells or other malignant cells. Our 22 solution to this problem is to study abnormal 23 cells in pleural fluid by electron microscopy and 24 immunohistochemistry. 25 Have you ever seen that before?</p>

20 (Pages 74 to 77)

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<p style="text-align: right;">Page 78</p> <p>1 I'll show it to you.</p> <p>2 A. Yes, I'm very familiar with that</p> <p>3 literature and the attempt to differentiate benign</p> <p>4 from malignant conditions by a variety of</p> <p>5 different techniques.</p> <p>6 Q. Would that be a good thing to do in</p> <p>7 this case if we're able to, is follow up with</p> <p>8 immunohistochemistry and ultrastructural studies?</p> <p>9 A. My own opinion is, in this case, they</p> <p>10 would not be helpful.</p> <p>11 Q. And what is the basis of that opinion?</p> <p>12 A. The fact that I think the cells that</p> <p>13 are present, from a cytopathologist's view, are</p> <p>14 clearly malignant, and their histogenesis is</p> <p>15 clearly from a mesothelioma cell. Therefore,</p> <p>16 those studies would not add anything to this</p> <p>17 case.</p> <p>18 Q. If there were the ability and we are</p> <p>19 able to, in this case, do an immunohistochemistry,</p> <p>20 is there a particular battery of stains that you</p> <p>21 would find particularly useful or more of</p> <p>22 assistance with cytologic fluid specimens as</p> <p>23 compared to tissue specimens?</p> <p>24 A. Well, I think it's important to</p> <p>25 understand that the reason you'd undertake those</p>	<p style="text-align: right;">Page 80</p> <p>1 determine the disease process.</p> <p>2 Q. How would we be able to detect the</p> <p>3 presence of hyaluronic acid in any of the</p> <p>4 pathology materials we have for Mr. Gardea?</p> <p>5 A. That's typically done with an alcian</p> <p>6 blue stain.</p> <p>7 Q. We could potentially do that from maybe</p> <p>8 the block or the slides in this case?</p> <p>9 A. That's correct.</p> <p>10 Q. And if we did that, would you agree that</p> <p>11 that would be of assistance in differentiating</p> <p>12 potential malignant mesothelioma from a metastatic</p> <p>13 malignant neoplasm?</p> <p>14 A. I would not. That stain was used in</p> <p>15 an earlier era, but it's proved to be not very</p> <p>16 consistent or reliable. So I would not rely on</p> <p>17 it.</p> <p>18 Q. Are you familiar with Dr. Henderson's</p> <p>19 scheme of investigation of suspected</p> <p>20 mesotheliomas?</p> <p>21 A. I believe I've seen it. I think it's</p> <p>22 outdated. He published that some time ago.</p> <p>23 Q. It was published in '92.</p> <p>24 A. Right.</p> <p>25 Q. I want to show it to you. It's listed</p>
<p style="text-align: right;">Page 79</p> <p>1 studies is to differentiate an adenocarcinoma from</p> <p>2 a mesothelioma.</p> <p>3 So if we all agree that malignant cells</p> <p>4 are present, those stains would be helpful in</p> <p>5 delineating what type of cancer is present in</p> <p>6 Mr. Gardea.</p> <p>7 Q. You say, if we all agree they're</p> <p>8 malignant.</p> <p>9 Staining would be of no use in</p> <p>10 differentiating malignant from nonmalignant</p> <p>11 spots?</p> <p>12 A. That's correct, because the cells are</p> <p>13 a mixture of mesothelioma cells, reactive</p> <p>14 mesothelial cells, and what I believe are</p> <p>15 malignant mesothelioma cells, and they would all</p> <p>16 stain the same way with the typical battery used</p> <p>17 for adenocarcinoma versus mesothelioma.</p> <p>18 Q. Based on any of the stains, the H&E</p> <p>19 stains were done, would that -- what is the</p> <p>20 purpose of doing an H&E stain?</p> <p>21 A. That's the standard stain that's used in</p> <p>22 pathology. It's a differential stain that stains</p> <p>23 both proteins and nucleic acids within cells, so</p> <p>24 it allows a pathologist and cytopathologist to</p> <p>25 discern the fine cellular detail of a cell to</p>	<p style="text-align: right;">Page 81</p> <p>1 as Figure 5-121 on Page 504 of Dr. Hammar's book.</p> <p>2 With respect to effusions being present,</p> <p>3 there's a little sub -- the graph goes on to the</p> <p>4 effusion.</p> <p>5 In the level-one investigation, it</p> <p>6 references what you have performed, cytopathology.</p> <p>7 It then references doing a mucin stain,</p> <p>8 a CEA stain, an EMA stain, electromicroscopy --</p> <p>9 what does that say?</p> <p>10 A. And like the hyaluronic acid stain,</p> <p>11 immunohistochemistry, and CEA.</p> <p>12 Q. And then we go on to an evaluation, and</p> <p>13 then we have no diagnosis or a definitive</p> <p>14 diagnosis?</p> <p>15 A. Correct.</p> <p>16 Q. Of the four or five things listed here</p> <p>17 on Dr. Henderson's chart, you believe that</p> <p>18 cytopathology alone is sufficient?</p> <p>19 A. I do. Again, this chart is almost 14</p> <p>20 years old. There have been great advances since</p> <p>21 that point in time, and cytopathology at that</p> <p>22 point in time was certainly far less precise than</p> <p>23 it is today.</p> <p>24 Q. Not being an expert on cytopathology</p> <p>25 myself, is there anything about the histologic</p>

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<p style="text-align: right;">Page 82</p> <p>1 features you've reported as seeing on the 2 microscope that would be -- could and would be 3 seen in other cancers? 4 A. Certainly the variation in nuclear size, 5 the nuclear cytoplasmic ratio changes. 6 The chromatin pattern and nucleoli can 7 be seen in other cancers, but it's also the 8 architecture of the cells that lead you to their 9 histogenesis. 10 So while a zebra and an elephant may 11 both have four legs, they are obviously distinctly 12 different creatures. 13 Q. Did you actually review any x-ray or CT 14 films? 15 A. No. 16 Q. You've reviewed reports of such films 17 and CTs? 18 A. That's correct. 19 Q. Do you have any opinion one way or the 20 other as to the diagnosis by Dr. Segarra of 21 asbestosis and silicosis in this case? 22 A. Only insofar as he's the expert. I 23 would defer to his opinion on that issue. 24 Q. Are you familiar with the ILO or the 25 NIOSH B-read form?</p>	<p style="text-align: right;">Page 84</p> <p>1 Bernal. 2 Q. (BY MR. PETERREIT) On the actual B-read 3 form, Section 4B, Other Symbols, there are several 4 symbols listed down there that the physician can 5 check or cross through. 6 A. Yes. 7 Q. And, in this case, Dr. Segarra has 8 crossed through the BU, which is bulla, true? 9 A. Correct. 10 Q. The CA, which is cancer of lung or 11 pleura, true? 12 A. Yes. 13 Q. And EF, which is effusion? 14 A. Correct. 15 Q. Given that Dr. Segarra notes effusions 16 or opacities in all three lung zones on both 17 sides, would you agree that we have a situation 18 here of advanced, progressive fibrotic changes? 19 A. Yes. 20 Q. And this would be indicative of late 21 stage or very -- late stage or very serious 22 asbestosis or silicosis? 23 A. Yes. 24 Q. Because those typically begin in the 25 lower zones and work their way up; isn't that</p>
<p style="text-align: right;">Page 83</p> <p>1 A. Yes, I am. 2 Q. Do you have Dr. Segarra's report in 3 front of you? 4 A. I believe it was here. 5 I have it. 6 Q. Okay. First of all, the film quality 7 reported by Dr. Segarra of the chest x-ray is a 8 grade three. 9 Do you see that? 10 A. Yes. 11 Q. Would you agree that a grade three 12 film, the definition of that is poor, with some 13 technical defect, and still acceptable for 14 purposes of classification? 15 A. That's correct. 16 MR. NOVAK: Hold on just a second. 17 I think I've just heard the third beep, 18 which means, if my math is correct, there's no one 19 else left on the phone. 20 If there is someone on the phone, would 21 they let us know? Otherwise, we're going to hang 22 up. 23 MR. STEELE: I'm on the phone. 24 MR. NOVAK: Thank you. 25 MS. BERNAL: I am too. This is Kathryn</p>	<p style="text-align: right;">Page 85</p> <p>1 true? 2 A. That's correct. 3 Q. Do you entertain any possibility that 4 Mr. Gardea's asbestosis and silicosis may have 5 killed him? 6 A. No. 7 Q. In your opinion, that's not even a 8 possibility, in the realm of possibilities? 9 A. I think it's inconsistent with his 10 clinical history. He'd been evaluated for these 11 changes which remain consistently stable over the 12 years, and they did not produce his death. 13 It was only upon developing his 14 malignant pleural effusion and mesothelioma that 15 he actually died. 16 Q. What is your opinion as to whether 17 silica is a direct acting carcinogen or a 18 cocarcinogen? 19 A. Well, I think that that's been 20 documented in the medical literature for a number 21 of years, but its ability to cause lung cancer 22 specifically is far less than other carcinogens. 23 Q. The IARC classifies silica as a 2A, 24 which is probably carcinogenic in humans. 25 Is that your understanding?</p>

22 (Pages 82 to 85)

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<p style="text-align: right;">Page 86</p> <p>1 A. Yes.</p> <p>2 Q. Have you seen any reference in the CT or</p> <p>3 x-ray reports that you have reviewed that there</p> <p>4 was any nodular studding in the pleural surface</p> <p>5 that is indicative of a pleural mesothelioma?</p> <p>6 A. No.</p> <p>7 Q. Would you agree that solitary masses is</p> <p>8 not the typical clinical presentation of a</p> <p>9 mesothelioma?</p> <p>10 A. It can be, but that's less common.</p> <p>11 Usually you don't see anything.</p> <p>12 Q. And, again, so we're clear, you did not</p> <p>13 see any evidence of obliteration of the pleural</p> <p>14 space in any of the records, notations, or</p> <p>15 radiologic reports?</p> <p>16 A. By a tumor growth, no, I did not. The</p> <p>17 pleural space was filled with fluid.</p> <p>18 Q. Are you able to tell from the pathology</p> <p>19 material itself whether there was invasion into</p> <p>20 other tissues?</p> <p>21 A. No.</p> <p>22 Q. You would agree that that could be seen</p> <p>23 if we had some type of a tissue specimen to</p> <p>24 observe?</p> <p>25 A. Certainly.</p>	<p style="text-align: right;">Page 87</p> <p>1 Q. Of any of the individuals on the panel</p> <p>2 which we've referenced this 2000 article from the</p> <p>3 American Journal of Surgical Pathology earlier, do</p> <p>4 you know if any of them, that being Dr. Chung,</p> <p>5 Dr. Colby, Dr. Cagle, Dr. Corson, Dr. Gibbs,</p> <p>6 Dr. Gilks, Dr. Grimes, Dr. Hammar, Dr. Roggli, or</p> <p>7 Dr. Travis, have a specialty concentration in</p> <p>8 cytopathology?</p> <p>9 A. I don't believe any of them do.</p> <p>10 Q. Do you have any familiarity with how</p> <p>11 prevalent that specialty is as far as people</p> <p>12 obtaining certification?</p> <p>13 A. It's quite prevalent. In fact, in the</p> <p>14 last five years, there's been an active move by</p> <p>15 pathology groups nationwide to hire a</p> <p>16 cytopathologist to work within their groups. I</p> <p>17 believe in pathology, it is the most common</p> <p>18 subspecialty.</p> <p>19 Q. Do you believe that cytopathology is far</p> <p>20 enough along that it has replaced actual tissue</p> <p>21 specimens as the gold standard for diagnosis?</p> <p>22 A. In many areas. For example, I evaluate</p> <p>23 thyroid aspirates on a regular basis for the</p> <p>24 Cleveland Clinic, and that is widely acknowledged</p> <p>25 as a diagnostic entity that prevents people from</p>
<p style="text-align: right;">Page 87</p> <p>1 Q. An invasion into other spaces and</p> <p>2 tissues is highly diagnostic for malignant</p> <p>3 mesothelioma, true?</p> <p>4 A. Correct. That's one way you diagnose</p> <p>5 it.</p> <p>6 Q. Would you agree that cigarette smoking</p> <p>7 individuals have a higher incidence of asbestosis?</p> <p>8 A. No.</p> <p>9 Q. Do you agree that smoking, at least</p> <p>10 theoretically, increases the fiber dose retention</p> <p>11 and rate of penetration?</p> <p>12 A. I know that's been proposed, but it's</p> <p>13 never been shown scientifically that that occurs.</p> <p>14 Q. Does it theoretically make sense based</p> <p>15 on what smoking does to the body's clearance</p> <p>16 mechanisms?</p> <p>17 A. Biologically, it makes sense, but,</p> <p>18 again, studies of these workers have not shown any</p> <p>19 difference between the smokers and nonsmokers.</p> <p>20 Q. Do you know if the United States</p> <p>21 Canadian Mesothelioma Panel have written with</p> <p>22 regard specifically to the use of cytopathology</p> <p>23 for the diagnosis of mesothelioma?</p> <p>24 A. I don't know. I have not seen anything</p> <p>25 from them.</p>	<p style="text-align: right;">Page 89</p> <p>1 having thyroidectomies unnecessarily.</p> <p>2 Q. Would you agree that observations</p> <p>3 regarding the gross distribution and morphologic</p> <p>4 features of a tumor or tumors is very -- are very</p> <p>5 important elements in the diagnosis of malignant</p> <p>6 mesothelioma?</p> <p>7 A. In certain difficult cases, that's true,</p> <p>8 but certainly most cases are straightforward and</p> <p>9 do not require that kind of investigation.</p> <p>10 Q. Are they important elements though?</p> <p>11 That's my question.</p> <p>12 A. They can be.</p> <p>13 Q. Can be.</p> <p>14 And you would agree that parenchymal</p> <p>15 pulmonary masses are uncommon in malignant</p> <p>16 mesotheliomas except maybe in late-stage disease?</p> <p>17 A. That's true.</p> <p>18 Q. Would you agree that dominant pulmonary</p> <p>19 masses should raise suspicions regarding the</p> <p>20 diagnosis of mesothelioma?</p> <p>21 A. Not necessarily. Certainly every case</p> <p>22 is different. In this case, it's clear that those</p> <p>23 masses are not malignant, and so they have</p> <p>24 absolutely nothing to do with this man's</p> <p>25 underlying malignancy.</p>

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<p style="text-align: right;">Page 90</p> <p>1 Q. What did you do to exclude a metastatic 2 tumor diagnosis in this case? 3 A. I don't think there's any evidence in 4 this individual clinically or cytologically of a 5 primary tumor that would have spread to the 6 pleura. 7 And the appearance of the tumor in that 8 pleural fluid is quite different from what you 9 would expect in a metastatic carcinoma from some 10 other site. 11 Q. What would you expect to find 12 cytologically in a metastatic carcinoma? 13 A. They tend to be quite pleomorphic. So 14 the cells have a striking variability in 15 appearance. That's probably the key feature. 16 And then just the cytologic architecture 17 of the cells, they tend to be cells that don't 18 have the perfectly round and regular architecture 19 of mesothelial cells but rather they show 20 considerable variation in the cytoplasmic and 21 nuclear features. 22 Q. When you're referring to perfectly 23 round, are you talking about the cytoplasmic 24 borders or the actual nuclear contour? 25 A. Both. Typically the mesothelial cells,</p>	<p style="text-align: right;">Page 92</p> <p>1 A. You should expect to see some mitoses, 2 but it depends on the growth rate of the tumor, 3 and so I don't rely entirely on mitotic activity 4 as an index of malignancy. 5 Q. Let me ask you this question: You would 6 agree that it has been reported that malignant 7 neoplasms, including mesothelioma can become 8 dormant for a number of years, would you agree 9 with that? 10 A. I've never heard that. 11 Q. You've never heard that? 12 A. No. 13 Q. There's no way in your -- based on your 14 understanding of pathology, there's no way that 15 this could have been a mesothelioma or an 16 adenocarcinoma back in the '85, '86 time frame 17 that laid dormant until later years? 18 A. No. 19 (Mr. Shepherd left the room.) 20 Q. (BY MR. PETERBIT) What is different 21 about the cytology you reviewed and saw that, in 22 your mind, enables you to rule out a reactive 23 mesothelioma change? 24 A. I think we've been through this before. 25 Even in an exuberant, reactive condition, you'll</p>
<p style="text-align: right;">Page 91</p> <p>1 the cytoplasm has a nice, round, regular contour, 2 and the nuclei are oriented within the center of 3 the cytoplasm, which is quite different than 4 metastatic tumors where the nuclei are placed in 5 multiple different locations within the cytoplasm, 6 and there's a lot of variation in cytoplasmic and 7 nuclear architecture. 8 Q. In the material you observed under the 9 microscope, did you note any necrosis present in 10 the pathology? 11 A. No, I did. 12 Q. Did you note or were you able to note 13 mitoses or mitotic changes? 14 A. Yes, there were mitoses in some of the 15 cells. 16 Q. How would you -- frequent mitoses? 17 Rare? How would you describe them? 18 A. I would say an occasional cell showed 19 it. 20 Q. So you would say an occasional 21 mitoses? 22 A. Yes. 23 Q. In your opinion, would you expect -- is 24 that what you would expect to find as far as the 25 rate of mitotic changes in a mesothelioma?</p>	<p style="text-align: right;">Page 93</p> <p>1 never see more than a twofold variation in nuclear 2 size. That's one of the key features. 3 Typically in a reactive process, not 4 only do the nuclei get larger but the cytoplasm 5 enlarges proportionately with it, whereas in a 6 malignant process, the cytoplasm stays the same in 7 volume. The nuclei get bigger, causing what we 8 call an increased N/C ratio. 9 And then there's the chromatin pattern 10 in the nuclei. Remember that when a cell becomes 11 malignant, the DNA is irregularly distributed 12 within the chromatin. 13 So it produces a darker and more clumped 14 appearing chromatin pattern, whereas in reactive 15 cells, the chromatin, because it is normal, 16 remains finely distributed throughout the nuclei. 17 So these are some of the cytologic 18 features that we look for. 19 Q. Dr. Roggli, in his second edition of his 20 treatise, Asbestos-Associated Diseases -- or 21 Pathology of Asbestos-Associated Diseases, makes a 22 statement on Page 115 of Chapter 5 on mesothelioma 23 and I should note that this is authored by 24 Drs. Sporn and Roggli -- they state that: 25 Although now commonplace usage -- although with</p>

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<p style="text-align: right;">Page 94</p> <p>1 the now commonplace usage of immunocytochemistry 2 in the evaluation of cytologic material, the 3 pathologist may become highly suspicious of the 4 diagnosis of mesothelioma. It remains our 5 practice and that of others to treat exfoliative 6 and aspiration biopsy specimens as screening tests 7 and to rely on tissue test specimens to secure the 8 diagnosis. 9 Agree or disagree? 10 A. I know they state that, but that's their 11 view of the world. It certainly is inconsistent 12 with those who specialize in cytopathology and 13 practice it on a day-to-day basis. 14 Q. I note that one of the cites to his 15 statement that others practice that as well is -- 16 I'll show you. 17 At the end of his little string cite 18 where he says that it is the practice of others 19 to -- do you see where he cites to footnote or 20 endnote 2, 15, and then 139 through 152? 21 A. Yes. 22 (Mr. Shepherd entered the room.) 23 Q. (BY MR. PETERBIT) If you go to the endnote 24 section, I note that 15 is by Dr. Hammar. 25 MR. NOVAK: So what's your question?</p>	<p style="text-align: right;">Page 96</p> <p>1 Q. Do you have any specific case names 2 that come to the top of your mind as to case 3 depositions you've reviewed of Dr. Hammar in which 4 he has given you an indication that would be his 5 position today? 6 A. I don't remember them offhand, but it 7 was a case from Goldberg, Persky that I read his 8 deposition in. 9 Q. Goldberg, Persky being a law firm? 10 A. Yes. 11 Q. Do you know what state they're out of? 12 MR. NOVAK: Pittsburgh, Pennsylvania. 13 MR. PETERBIT: Thank you, Mr. Novak. 14 Q. (BY MR. PETERBIT) Do you know what year 15 that deposition was given? 16 A. It was last year, 2004. 17 Q. Did you, by any chance, attend the 18 International Academy of Pathologists conference 19 in Amsterdam last year? 20 A. No. 21 Q. Have you reviewed any of the materials 22 that came out of that conference? 23 A. No. 24 Q. Do you know if cytopathology and the 25 diagnosis of mesothelioma was a topic of</p>
<p style="text-align: right;">Page 95</p> <p>1 Q. (BY MR. PETERBIT) Do you see that 2 chapter? It's a chapter on pleural diseases from 3 Pulmonary Pathology, second edition? 4 A. From 1994, that's an ancient textbook. 5 Of course Dr. Hammar in that point in time would 6 have, as I would have, would have recommended 7 tissue biopsy. 8 Q. Have you spoken with Dr. Hammar -- I'm 9 sorry, did I cut you off? 10 A. No. 11 Q. Have you spoken with Dr. Hammar recently 12 to update what you believe his opinions are 13 regarding the usage of cytopathology for 14 diagnostic purposes? 15 A. I have not spoken to him directly, but 16 I've certainly read some of his deposition 17 transcripts, and I believe, in 2005, his opinion 18 would be quite different. 19 I think that he would say that there are 20 cytologic specimens in which a diagnosis of 21 mesothelioma can be rendered to a hundred percent 22 degree of certainty. 23 Q. Do you know if Dr. Hammar has been 24 consulted in this case? 25 A. I don't know.</p>	<p style="text-align: right;">Page 97</p> <p>1 discussion? 2 A. I don't know. 3 Q. How often do you attend or are you 4 required to attend continuing legal education type 5 courses? 6 A. Continuously. 7 MR. NOVAK: Legal? 8 Q. (BY MR. PETERBIT) I'm sorry, continuing 9 professional. I'm so used to doing CLBs. I 10 apologize. 11 How frequently are you required or do 12 you, as just a matter of course, attend 13 professional learning and continuing learning 14 education courses? 15 (Mr. Rice left the room.) 16 THE WITNESS: Well, it depends on the 17 licensure requirements of the state, but most 18 states require, during biannual reappointment, at 19 least 80 or 100 continuing medical education 20 hours. 21 (Mr. Rice entered the room.) 22 THE WITNESS: So I, for a comparison, 23 usually rack up about 250 to 300 during a two-year 24 period. So I'm very active in pursuing continuing 25 education.</p>

25 (Pages 94 to 97)

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<p>1 Q. (BY MR. PETERREIT) What states are you 2 currently licensed in to practice medicine? 3 A. Maine -- 4 Mr. NOVAK: Asked and answered. 5 MR. PETERREIT: I'm sorry. 6 THE WITNESS: Maine, Florida, and 7 Massachusetts. 8 Q. (BY MR. PETERREIT) Have you ever been 9 licensed in Texas? 10 A. No. 11 Q. Do you still practice primarily out of 12 Maine? 13 A. No, Florida. 14 Q. Florida now. 15 It's probably on your CV, and if it is, 16 just tell me. How many articles have you specific 17 written regarding the use of cytopathologic 18 materials for the diagnosis of malignant 19 mesothelioma 20 A. None. 21 Q. Have you authored any articles with any 22 potential relevance to the use of cytopathology 23 in the diagnosis of tumors? 24 A. No. Others have done that, but not 25 me.</p>	<p>1 are most commonly due to metastatic 2 adenocarcinomas of the lung or breast? 3 A. Yes. 4 Q. Number three, I believe, would be 5 lymphomas as far as percentage-wise? 6 A. I'm not -- I don't believe. In my 7 experience, lymphomas are quite rare in the 8 pleural space. 9 Q. No, I meant as far as when you see 10 malignant pleural effusions, would you agree that, 11 where you see them, typically the top two would be 12 metastatic adenocarcinoma; number two would be 13 breast cancer; number three would be probably 14 lymphomas, or do you see malignant -- 15 A. No, I think number three would be upper 16 gastrointestinal malignancies, and number four 17 would be gynecologic malignancies in women. 18 Q. Is the cytology we looked at here what 19 you would call an exfoliative cytology? 20 A. Yes, that's exactly what it is. 21 Q. In Dr. Roggli's book -- again, this is 22 Chapter 9 entitled Cytopathology of 23 Asbestos-Associated Diseases, by Dr. Sporn -- 24 under the heading Benign Effusions, Dr. Sporn 25 writes that: Benign effusions may result in the</p>
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<p>1 Q. Do you -- I'll let you produce what 2 you're going to produce instead of asking you 3 what the most recent one that you're familiar 4 with was. 5 What is blebbing? 6 A. It's when the airspaces in the lung 7 break down, forming larger airspaces that grossly 8 look like bubbles beneath the pleura, and that's a 9 bleb. 10 Q. Would you agree or disagree that there's 11 a greater risk in an ex-smoker than of a nonsmoker 12 of being diagnosed with lung cancer even 20-plus 13 years after quitting smoking? 14 A. Yes, there is persistent risk even 20 15 years out. 16 Q. Would you agree or disagree that the 17 interpretation of pleural fluid cytology specimens 18 can be hindered by regional inflammation or 19 infection which may lead to the false-positive 20 diagnosis of malignancy? 21 A. I would disagree. In the hands of a 22 competent cytopathologist, they would be aware of 23 those changes. 24 Q. Would you agree that between 40 and 80 25 percent of pleural effusions that are malignant</p>	<p>1 exfoliation of mesothelioma cells with striking 2 cytologic atypia, including large size and nuclear 3 abnormalities such as multinucleation. 4 Misinterpretation of reactive changes in 5 mesothelium as malignant mesothelioma or carcinoma 6 constitutes a major pitfall in exfoliative 7 cytology. 8 Do you agree or disagree with that 9 statement? 10 A. I agree. General pathologists not 11 trained in cytopathology may incorrectly render 12 diagnoses of malignancy, and I've seen that on 13 multiple occasions. 14 That's why the cytologic diagnosis of 15 mesothelioma should be reserved to 16 cytopathologists who are skilled in making that 17 diagnosis. 18 Q. I assume you disagree with his statement 19 on Page 239 that: On cytologic grounds alone, it 20 may be difficult or impossible to distinguish 21 metastatic adenocarcinoma from primary 22 malignancies of the serosal membranes, i.e., 23 malignant mesothelioma. 24 A. In certain cases, that's absolutely 25 correct.</p>

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<p>1 Q. Did the cytology you reviewed have a 2 three-dimensional feature to the cells? 3 A. Parts of it, in the papillary clusters 4 and the acinar clusters, but most of it was a thin 5 section, so it wasn't three-dimensional. 6 Q. Would you characterize the cells as 7 being tight, a tight pattern, groupings together 8 in the population you described? 9 A. Well, it's a mixture. Some of them were 10 separated from each other, and others were formed 11 into papillary and acinar structures. 12 Q. Did you observe a high nuclear to 13 cytoplasmic ratio? 14 A. Yes, I did. 15 Q. Did you note nuclear membrane 16 irregularities? 17 A. I did. 18 Q. Pleomorphism? 19 A. Yes. 20 Q. Hyperchromasia? 21 A. Yes. 22 Q. Prominent nucleoli? 23 A. In some of the cells, yes. 24 Q. I guess we wouldn't be able to -- 25 without doing stains, you wouldn't be able to talk</p>	<p>1 single cytologic feature, that's correct. You 2 have to collect the data, the view of the cells to 3 come up with that diagnosis. 4 Q. Would you agree that papillary 5 aggregates within the cytologic specimen can be 6 seen in both the pleural mesothelioma and also 7 adenocarcinoma? 8 A. Yes. 9 Q. In your opinion, can papillary 10 aggregates be found in benign effusions? 11 A. On occasion, you can see what's called 12 papillary mesothelial hyperplasia, so then 13 cytologic appearance of the cells becomes very 14 important. 15 Q. Would you describe the population of 16 exfoliated cells in the cytology reviewed as being 17 uniform? 18 A. No. 19 Q. Agree or disagree that a uniform 20 population of exfoliated cells favors mesothelioma 21 over adenocarcinoma? 22 A. I disagree. Usually when they're -- 23 (Dial tone.) 24 MR. NOVAK: Just turn it off. 25 (A recess was taken at 2:49 p.m.)</p>
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<p>1 about the demonstration of mucin in any of the 2 cells, right? 3 A. Well, certainly the cytoplasm didn't 4 show any vacuoles, so I wouldn't expect to find 5 mucin. 6 Q. Would you agree that the demonstration 7 of mucin in cells is strongly suggestive of 8 malignancy? 9 A. In a pleural effusion, yes. 10 Q. We just went through some of the 11 pathologic features that you found in this 12 pathology, including the high nuclear to 13 cytoplasmic ratios, nuclear membrane 14 irregularities, pleomorphism, hyperchromasia, and 15 prominent nucleoli. 16 Dr. Sporn, on Page 238, going on to Page 17 239, gives every single one of those and describes 18 them as being characteristic of carcinomatous 19 pleural effusions? 20 A. Which is another term for malignant. 21 They can be -- carcinoma is a malignancy. 22 Mesothelioma is a carcinoma. 23 Q. Thank you. 24 Would you agree that no cytologic 25 feature is diagnostic of malignant mesotheliomaNo</p>	<p>1 (Mr. Rice left the room.) 2 (Mr. Zoeller left the room.) 3 (Back on the record at 2:50 p.m.) 4 MR. PETERBITT: We're back. Is everybody 5 still here? 6 MR. LaBOON: Yes. 7 MR. PETERBITT: Sorry about that. 8 MR. LaBOON: Okay. Thanks. 9 MR. PETERBITT: We're going to take a, I 10 think, two-minute break. 11 MR. SHEPHERD: We'll just gather the 12 guys. 13 (Mr. Shepherd left the room.) 14 MR. NOVAK: Just keep going. They 15 walked out on their own. If they want to walk out 16 in the middle of the dep, that's their business. 17 THE WITNESS: I need to finish my 18 answer. 19 Q. (BY MR. PETERBITT) Yes. Please do. 20 A. The answer was no, and the uniform 21 population of cells characterizes a benign 22 process, not a mesothelioma or a malignant 23 metastatic tumor. 24 (Mr. Shepherd entered the room.) 25 Q. (BY MR. PETERBITT) So when Dr. Sporn,</p>

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<p style="text-align: right;">Page 106</p> <p>1 on Page 240, says: A uniform population of 2 exfoliated cells favors mesothelioma over 3 adenocarcinoma, but this is also a feature of 4 benign effusions, you partially agree, partially 5 disagree? 6 A. Well, I think we're talking about two 7 different things. One is that, in mesothelioma 8 and I had talked about this earlier -- the 9 malignant population of cells appears uniform. 10 They have a cytologic architecture which 11 is less anaplastic and pleomorphic than a 12 metastatic tumor. 13 But the other issue is that, for benign 14 conditions, the cells are small, resemble their 15 cell of origin, they're uniform -- 16 (Mr. Zoeller entered the room.) 17 THE WITNESS: -- and you can rule out a 18 malignancy based upon those features. 19 Q. (BY MR. PETERREIT) Did you find 20 peripheral cytoplasmic blebbing in the cytology 21 you reviewed? 22 A. I don't believe I saw that, no. 23 Q. Would you agree that that would be 24 suggestive of mesothelioma? 25 A. It can be seen in a small population of</p>	<p style="text-align: right;">Page 108</p> <p>1 the majority of cases. 2 Q. I believe you testified earlier -- if 3 you didn't, tell me -- that you would certainly 4 have advocated in this case, if possible, the 5 obtaining of a needle biopsy or some type of a 6 tissue specimen? 7 A. Well, in a perfect world, a tissue 8 diagnosis is always preferred by pathologists in 9 general practice over cytology, but when tissue is 10 not available, then you use the best material you 11 have available to render a diagnosis. 12 Q. Dr. Sporn says that: The confirmation 13 of positive cytologic findings with surgical 14 biopsy is advocated by other centers with 15 extensive experience in the care of mesothelioma 16 patients. 17 (Mr. Rice entered the room.) 18 Q. (BY MR. PETERREIT) It cites to endnote 19 number 45, and I believe that's the Sugarbaker 20 article again. 21 Would you agree with that statement? 22 A. Well, I think it's inconsistent with my 23 own experience. One of the cases which I will be 24 providing is a diagnosis of malignant mesothelioma 25 was rendered cytologically. It was confirmed at</p>
<p style="text-align: right;">Page 107</p> <p>1 cases, but, in my experience, it's not commonly 2 present. 3 Q. What is cell-to-cell apposition? 4 A. It's one cell touching another cell. 5 Q. Did you see that in the cytology in this 6 matter? 7 A. In some areas, yes. 8 Q. Was there the formation of intercellular 9 windows in the pathology that you saw? 10 A. I don't know what he means by that term. 11 Q. Okay.. What about cell cannibalism, do 12 you understand what he means by that? 13 A. Yes. On occasion, a malignant cell will 14 consume another malignant cell. I believe there 15 was some cannibalism of red cells, but I didn't 16 see one malignant cell cannibalizing another. 17 Q. Would you agree with Dr. Sporn that 18 cell-to-cell apposition and cell cannibalism are 19 other findings suggestive of mesothelioma? 20 A. Yes. 21 Q. Agree or disagree: The diagnosis of 22 mesothelioma based solely on examination of 23 cytologic specimens even with ancillary studies 24 remains fraught with hazards? 25 A. In some cases, it can be, certainly not</p>	<p style="text-align: right;">Page 109</p> <p>1 the hospital in Boston that Dr. Sugarbaker works 2 on. And, based upon that diagnosis, he took the 3 patient to surgery and did an extrapleural 4 pneumonectomy. 5 Q. Do you have any familiarity or 6 recollection as to the radiographic presentation 7 of the tumors in that case? 8 A. It was very similar to this one, just a 9 unilateral pleural effusion that was drained. 10 Q. No, but I mean, do you know, was there 11 the typical nodular studding and encasement of a 12 lung or obliteration into the pleural case? 13 A. No. In fact, that was absent, and 14 that's why they undertook the extrapleural 15 pneumonectomy because it was an early stage 16 mesothelioma. 17 Q. Certainly you would agree or advocate 18 that it's necessary, especially in the 19 medical/legal context, to have all possible 20 diagnostic tests performed on tissue, on the tumor 21 tissue, in order to ensure diagnostic certainty? 22 A. Again, I don't believe that's necessary 23 in all cases. In many of the cases, the diagnosis 24 is straightforward. It doesn't require any 25 special stains.</p>

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<p style="text-align: right;">Page 110</p> <p>1 And, in fact, from large centers like</p> <p>2 M.D. Anderson and other cancer centers, those</p> <p>3 straightforward cases never have any</p> <p>4 immunohistochemistry done on them.</p> <p>5 Q. Have you ever done any work for the</p> <p>6 Motley firm, Motley, Rice?</p> <p>7 A. No.</p> <p>8 Q. Are you familiar with the huge lung</p> <p>9 treatise, Pathology of the Lung, by Thurlbeck and</p> <p>10 Churg?</p> <p>11 A. I have a copy of it.</p> <p>12 Q. It's a pretty heavy book; that's why I</p> <p>13 only brought some selected pages today.</p> <p>14 Did you, by any chance -- actually I</p> <p>15 believe you found what you would call sharp</p> <p>16 cytoplasmic boundaries in this cytology.</p> <p>17 A. Yes, I did.</p> <p>18 Q. You found voluptuous nuclei, otherwise</p> <p>19 referred to as irregular nuclear contours?</p> <p>20 A. That's a funny term, but, yes, I did see</p> <p>21 that.</p> <p>22 Q. I used their word. They put it in</p> <p>23 parentheses, "voluptuous nuclei."</p> <p>24 A. Yes.</p> <p>25 Q. I note, in Chapter 32 on Diagnostic</p>	<p style="text-align: right;">Page 112</p> <p>1 nuclear contours, voluptuous nuclei. You've</p> <p>2 described that in the case of this cytopathology,</p> <p>3 true?</p> <p>4 A. Yes.</p> <p>5 Q. They also describe prominent nucleoli,</p> <p>6 which you found in this cytopathology, true?</p> <p>7 A. No.</p> <p>8 Q. You did not?</p> <p>9 A. No.</p> <p>10 Q. I thought your report did.</p> <p>11 A. I think what I described was</p> <p>12 inconspicuous nucleoli, and that's a major</p> <p>13 differentiating point between an adenocarcinoma</p> <p>14 which has very large nucleoli and mesothelioma</p> <p>15 which has very small nucleoli.</p> <p>16 Q. Let's find your report.</p> <p>17 Prominent and small nucleoli?</p> <p>18 A. Small nucleoli.</p> <p>19 Q. So when it says prominent nucleoli, you</p> <p>20 think it means large?</p> <p>21 A. Yes. You can see it from the picture</p> <p>22 underneath here (indicating).</p> <p>23 Q. You pointed me to a picture here.</p> <p>24 What is the acinar -- because it says:</p> <p>25 Note acinar grouping and cytoplasmic vacuole.</p>
<p style="text-align: right;">Page 111</p> <p>1 Cytology by Greenberg and Amy, there is a</p> <p>2 discussion about different lung cancers,</p> <p>3 adenocarcinomas, and general cytologic features</p> <p>4 that they would find for those type of tumors.</p> <p>5 I note that on Page 137 here, when</p> <p>6 discussing features of adenocarcinomas, they say</p> <p>7 that acinar and papillary adenocarcinomas are</p> <p>8 cytologically similar?</p> <p>9 A. Yes.</p> <p>10 Q. And when talking about the general</p> <p>11 features of an adenocarcinoma, they talk about the</p> <p>12 cell arrangements being in cell balls, acinar</p> <p>13 groups, branching or papillary structures,</p> <p>14 correct?</p> <p>15 A. Correct.</p> <p>16 Q. Which is what you have described as</p> <p>17 being diagnostic of mesothelioma in this case, or</p> <p>18 at least one that you --</p> <p>19 A. One feature contributing to that</p> <p>20 diagnosis, yes.</p> <p>21 Q. They also describe that the nuclei are</p> <p>22 round to ovoid, which would encompass your</p> <p>23 findings in this case, true?</p> <p>24 A. Yes.</p> <p>25 Q. They also describe irregular, smooth</p>	<p style="text-align: right;">Page 113</p> <p>1 Can you, with your pen, draw on that for</p> <p>2 me what they mean by the acinar grouping?</p> <p>3 A. It's this round structure (indicating).</p> <p>4 There is a center, lumen, and then the cells are</p> <p>5 arranged around it.</p> <p>6 And then the vacuole that they're</p> <p>7 talking about is here (indicating).</p> <p>8 Q. And they talk about finely to coarsely</p> <p>9 granular chromatin. How does that correspond to</p> <p>10 the chromatin description that you found in this</p> <p>11 case?</p> <p>12 A. Well, what they're saying is it can vary</p> <p>13 in the adenocarcinomas, and what I found was that</p> <p>14 it was a very fine chromatin pattern, not a</p> <p>15 coarse, granular chromatin pattern.</p> <p>16 Q. Okay. I wanted to use your words though</p> <p>17 because your description of the -- I just see:</p> <p>18 Nuclear chromatin is condensed?</p> <p>19 A. That's correct.</p> <p>20 Q. That means it's fine as compared to</p> <p>21 being coarse?</p> <p>22 A. Yes, it means the DNA is diffusely</p> <p>23 distributed but it's darker when you look at it.</p> <p>24 Q. Would you characterize the cytoplasm in</p> <p>25 this -- in what you reviewed for Mr. Gardea as</p>

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<p style="text-align: right;">Page 114</p> <p>1 being delicate or wispy?</p> <p>2 A. No.</p> <p>3 Q. Would you describe the cytoplasm in</p> <p>4 Mr. Gardea as be finely to coarsely vacuolated?</p> <p>5 A. It was not.</p> <p>6 Q. Did you see any nuclear grooving in the</p> <p>7 nuclei?</p> <p>8 A. Not really. It was more irregular</p> <p>9 nuclear contours and indentation.</p> <p>10 Q. When it references eccentric location of</p> <p>11 nuclei in the cytoplasm, what does that mean?</p> <p>12 A. And that's another key distinguishing</p> <p>13 feature. The nuclei are offset to the edge of the</p> <p>14 cytoplasm, whereas in mesothelioma the nuclei are</p> <p>15 centrally oriented in the cytoplasm.</p> <p>16 Q. And so I can just draw in -- that dark</p> <p>17 spot at the edge of the cells is what you're</p> <p>18 referring to? It's not centered?</p> <p>19 A. No, the cytoplasm around it -- and it's</p> <p>20 hard to see in this picture, but if we could draw</p> <p>21 a cell in an adenocarcinoma, the nuclei would be</p> <p>22 here at the edge (indicating), whereas in a</p> <p>23 mesothelioma, it's located in the center.</p> <p>24 Q. And in this case, you noted central</p> <p>25 features of nuclei?</p>	<p style="text-align: right;">Page 116</p> <p>1 collection or library?</p> <p>2 A. I do not.</p> <p>3 Q. And I'm referring to a book edited by</p> <p>4 Dr. Cagle, Diagnostic Pulmonary Pathology, Volume</p> <p>5 142.</p> <p>6 Page 557 of this -- and I've actually</p> <p>7 got two copies, so I don't have to keep standing</p> <p>8 over you on this one.</p> <p>9 I'll wait until you get organized.</p> <p>10 It's page 557. It should be in the</p> <p>11 first couple pages. There we go.</p> <p>12 Do you note where Dr. Cagle states that:</p> <p>13 Identification of true invasion into the adjacent</p> <p>14 lung or subpleural soft tissue is the most</p> <p>15 reliable finding to confirm a diagnosis of a</p> <p>16 well-differentiated malignancy, particularly</p> <p>17 mesothelioma?</p> <p>18 A. I see where he states that.</p> <p>19 Q. Do you agree or disagree with that</p> <p>20 statement?</p> <p>21 A. I disagree with it.</p> <p>22 Q. What is your basis?</p> <p>23 A. Again, in cytopathology, there are</p> <p>24 cellular changes that allow you to render a</p> <p>25 diagnosis of a well-differentiated malignancy,</p>
<p style="text-align: right;">Page 115</p> <p>1 A. Uniformly in almost all the cells.</p> <p>2 Q. Did you see any intranuclear cytoplasmic</p> <p>3 inclusions?</p> <p>4 A. No.</p> <p>5 Q. Getting back up to the cell arrangement,</p> <p>6 did you note any nuclei that overlapped but did</p> <p>7 not mold around one another?</p> <p>8 A. I don't recollect that, no.</p> <p>9 Q. Common cell borders in cell clusters, is</p> <p>10 that characteristic of what you saw?</p> <p>11 A. No.</p> <p>12 Q. Occasional single cells?</p> <p>13 A. Certainly more than occasional. It</p> <p>14 was -- predominantly most of them were single</p> <p>15 cells.</p> <p>16 MR. PETEREIT: Can I mark that as an</p> <p>17 exhibit?</p> <p>18 THE REPORTER: Sure.</p> <p>19 (Defendants' Deposition Exhibit No. 7</p> <p>20 was marked for identification by the reporter.)</p> <p>21 Q. (BY MR. PETEREIT) You're familiar with</p> <p>22 Dr. Phillip Cagle, I'm sure?</p> <p>23 A. Yes.</p> <p>24 Q. Do you, by any chance, have this</p> <p>25 treatise or this textbook (indicating) in your</p>	<p style="text-align: right;">Page 117</p> <p>1 including a well-differentiated mesothelioma.</p> <p>2 So the presence or absence of invasion,</p> <p>3 which is something we don't even consider in</p> <p>4 cytology, is not important in the cytologic</p> <p>5 diagnosis.</p> <p>6 Q. Would you characterize the mitoses</p> <p>7 that you saw in this case as being normal or</p> <p>8 abnormal?</p> <p>9 A. In terms of abnormal mitotic figures,</p> <p>10 I believe that they were occasional and typical</p> <p>11 of what you would see in a malignant cell.</p> <p>12 Q. Would you expect to find normal or</p> <p>13 abnormal in a malignant cell?</p> <p>14 A. Well, the difficulty I'm having is what</p> <p>15 you mean by "abnormal." For example, there can</p> <p>16 be tripolar and tetrapolar mitoses which are</p> <p>17 clearly abnormal or there can be mitotic figures</p> <p>18 where you have a telophase plate in both malignant</p> <p>19 and benign cells.</p> <p>20 All I saw were splayed mitotic figures,</p> <p>21 which you can see in both benign and malignant</p> <p>22 conditions.</p> <p>23 Q. Would you call the cytologic atypia in</p> <p>24 this case extensive, mild, or moderate?</p> <p>25 A. In the malignant cells, it varied from</p>

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